CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

ARIZONA.—A new road which will extend 58 miles south of Holbrook, terminating at Bear Springs is being promoted by W. H. Clark, of Holbrook, Ariz.

ARIZONA EASTERN R. R.—A line is being surveyed between Hayden and Winkelman by L. H. Long, Asst. Engr., Tucson, Ariz. This line will be a cut-off, and is controlled by the Union Pacific R. R.

CANADIAN PACIFIC RY.—This company is applying for permission to build a railroad from Tantallon, Sask., on the Pheasant Hills branch, to Craven, Sask., a distance of 145 miles.

CHATTANOOGA SOUTHERN R. R.—A survey is being made between Rome and Rockmart, Ga., for a line about 20 miles long. C. H. Fisk, Chattanooga, Tenn., is Ch. Engr.

CHESAPEAKE & OHIO RY.—We are informed by press reports that a contract of $1,100,000 for grading and bridge construction necessitated by double-tracking this road from Lawrence Creek to Foster, Ky., has been let to WM. IRELAND, Maysville, Ky.

CHESAPEAKE & OHIO RY.—See item under Bridges: "Maysville, Ky."

CHICAGO & NORTHWESTERN RY.—An extension from Wyeville southeasterly to Milwaukee, and from Wyeville westerly to Sparta, Wis., involving the construction of 170 miles of new line, is projected by this company. Grading has been done on a line from Oroville southerly to Pateros, Wash., about 78 miles. Later it is expected a line will be extended further south to connect with the main line at Wenatchee, Wash. E. C. Carter, Chicago, Ill., is Ch. Engr.

GEORGIA.—We are officially advised that surveys are being made for the Atlanta Northeastern R. R. Co., from Atlanta to Unicoi Gap by way of Creighton, 140 miles. J. L. Murphy is Vice-Pres. and F. H. Cothran, 753 Candler Annex, Atlanta, Ga., is Loc. Engr.

GEORGIA, SOUTHWESTERN & GULF R. R.—The route of the proposed line of 155 miles, of which 60 miles has been located, from Albany, Ga., to St. Andrews Bay, Fla., is through Newton, Colquitt and Donaldsville, Ga., and Marianna, Fla. D. B. Dunn, Albany, Ga., is Ch. Engr.

INDIANA.—Steps have been taken for the elevation of railroad grade crossings of streets in South Bend. I. S. Romig, City Attorney. Similar action has been taken by the city authorities of Ft. Wayne, Evansville, Terre Haute and Elkhart.

LA CROSSE & SOUTHERN R. R. CO.—An extension of this line, for which surveys are being made, between Viroqua and Retreat, Wis., will be built in the spring, about 35 miles of track. A. E. Rau, Engr., Sparta, Wis., made the surveys.

LOUISIANA.—It is reported that work will soon begin on a line of about 90 miles, from Leesville to Donaldsonville, for the La Fourche Valley & Gulf R. R. Co., of which F. M. Welch is Pres. and Chas. Maurin, Donaldsonville, La., is Secy.-Treas.

LOUISIANA & ARKANSAS RY.—Press reports state that surveys are being made for this company from Jena, La., to Vidalia, La., about 45 miles. W. H. Vance, Stampe, Ark., is Engr. M. of W.

LOUISVILLE & NASHVILLE R. R.—According to press reports the contract for double-tracking through the 750-ft. tunnel between Covington and Latonia, Ky., has been let to THRASHER & GUNTER CONSTRUCTION CO., Knoxville, Tenn.

NORTHERN PACIFIC RY.—A route has been surveyed for a line from Leeds to Wilton. An extension also has been projected from Cannon Ball Junction as far as the South Dakota boundary line. W. L. Darling, St. Paul, Minn., Ch. Engr.

OKLAHOMA.—The building of a line for the St. Louis, Bartlesville & Pacific R. R. Co., from Joplin, Mo., to Carmen, Okla., about 225 miles, is under control of THE OKLAHOMA WESTERN CONSTRUCTION CO., newly organized. Subscription to the amount of $100,000 have been made by local residents, and it is reported that more extended financial arrangements are being made in France. Frank Overlees, Bartlesville, is interested; D. H. Rhodes, 213 Fourth St., Joplin, Mo., is Ch. Engr.

PENNSYLVANIA R. R.—Between Richmond, Ind., and Indianapolis 26 miles of line is to be double tracked and so reconstructed as to reduce grades and curves. The double tracking will be between Richmond and Dublin and Dunreith and Kingstown. Twenty-five crossings are to be eliminated. The line will be elevated through Cambridge City, Raysville and Kingstown, and will be put in a subway through Dublin. This will cost about $2,750,000. Alexander C. Shand, Philadelphia, Pa., is Ch. Engr.

QUEBEC.—An application for a charter to build a line with a number of branches, none of which to exceed 20 miles, will be made to the Quebec Legislature at its next session, by Richmond, Magog & Stanstead, of Montreal, Que.

MONTREAL, QUEBEC.—On Dec. 27 C. L. Armstrong and J. M. Shanly, representing the Montreal Central Terminus Co., with a capital of $30,000,000, submitted to the Montreal Board of Control a proposition for tunneling the St. Lawrence River and erecting a large central terminus at Montreal for all railways entering the city. The project involves the construction of a tunnel above Isle Ronde, so that the Delaware & Hudson Co. and New York Central & H. R. R. R. may enter from the south, the Grand Trunk from the west and the Canadian Northern from the north. The Canadian Pacific have not entertained the proposed undertaking. The Board instructed the representatives of the companies to lay the proposition before them in writing, together with detailed plans of the entire undertaking, which will be done and the scheme considered at a future meeting of the Board.

SOUTH CAROLINA.—A connecting line between the Greenville & Knoxville R. R. and the Knoxville, Sevierville & Eastern Ry. is to be built by the W. J. Oliver Construction Co., capitalized at $100,000. The incorporators are W. J. Oliver, E. G. Oates, and T. A. Wright, of Knoxville, Tenn.; Charles W. Ellis, and H. H. Prince, of Greenville, S. C.

SOUTHERN PACIFIC CO.—Surveys are being made for the building of a line from Yreka, Cal., to the Happy Camp mining district. W. Hood, San Francisco, Cal., is Ch. Engr.

TEXAS-OKLAHOMA.—Reports state that a road connecting Sweetwater, Tex., with Oklahoma City, Okla., is projected, a distance of about 300 miles. H. W. Wagner, Amarillo, Tex., is Engr.

UNION PACIFIC.—This company has made a formal announcement that a line from Redmond, the terminal of the Deschutes line, to Odell, on the Klamath cut-off, will be built; also a line from Grant's Pass to the coast in the vicinity of Crescent City.

WEST VIRGINIA.—Bonds for $400,000 have been floated by the Morgantown & Dunkard Valley Ry. Co., for the purpose of extending its line from Jimtown to Blacksville. J. Ami Martin is Gen. Mgr.

JAPAN.—The Consular Reports state: "Plans are being made for the widening of the gage of the railway between Tokyo and Shimonoseki, 704 miles; estimated cost, $115,000,000. The Premier, the Marquis Katsura, states that it is not the intention of the Government to raise a foreign loan, but that annual appropriations will be made for twelve or fifteen years. With this work completed, Japan's end of what may be called the international railways, viz., those extending from Calais to Tokyo, will approximate 1,600 miles, inclusive of the sea trip across the straits from Shimonoseki to Fusan, for which large steamers are now being built."

ELECTRICAL RAILWAYS.

PROVIDENCE, R. I.—An alliance has been made between the Providence & Fall River Street Ry. Co., and the Newport and Providence Ry. Co. A route from Providence to Newport is contemplated, passing through East Providence, Seekonk, Rehoboth, Swansea, Warren, Bristol, Portsmouth and Middletown. At present the ferry steamers operated by the Newport and Providence land in Bristol and connect with the electric cars of the New Haven road at the Constitution St. station. The Providence and Fall River Street Railway Co. recently filed its application with the Selectmen of Swansea, Mass., for leave to construct about three-fourths of a mile of new track from its present track on Baptist St., on the Rhode Island State line. The Newport and Providence Ry. Co. will ask the Rhode Island General Assembly for the right to build across the towns of Bristol and Warren, 6¼ miles, and will immediately thereafter apply for town rights in Bristol and Warren. James T. Shaw is Pres. of the Providence & Fall River St. Ry. Co., and Edward A. Brown, Newport, R. I., is Pres. of the Newport & Providence Ry. Co.

HIGHWOOD (New Haven post-office), CONN.—According to press reports, plans are being made to double track from Highwood to Hamden, 8 miles, and also from the second bridge to Mount Carmel. Work will probably start in the spring. C. C. Elwell, New Haven, Conn., is Engr. of the Connecticut Co.

NEW HAVEN, CONN.—The Shore Line Electric Ry. awarded the contract, some time ago, for building the extension from New Haven to Guilford to the AETNA CONSTRUCTION CO. Noted Nov. 10.

MORRISTOWN, N. J.—A franchise has been applied for by the Pinebrook Electric Co., to operate an electric railway on Bloomfield Ave.

SHARON, PA.—Pittsburg capitalists are behind a new street car line that is to be constructed during the coming summer connecting Sharon and South Sharon. Although the names of the promoters are being withheld, it is said that a well-known banking house is interested. A franchise will be asked for at the next meeting of the South Sharon council. It will cost about $300,000 to build the line.

SOMERSET, PA.—A line will be built from this place to Rockwood, about ten miles. It is stated that a group of local business men are backing the project.

SHARPSTOWN, MD.—The extension of the trolley line is now being surveyed from Nanticoke to Hebron to this town. H. D. Waters, representing the Industrial Engineering Co., proposed to guarantee the construction of this line. Subscriptions amounting to $1,000 have been made for the preliminary survey and other prospective work, and for this an equal amount of stock has been given.

MURRAY, KY.—The Murray Traction Co. is making preliminary surveys for an electric railway from Murray to the Tennessee River, 16 miles. Nathan Ryan, Murray, Ky., is Pres.

AKRON, OHIO.—Press reports state that the contract for a line from Akron to Alliance, 25 miles, has been awarded at Cleveland to the BREITINGER & MARBLE CO., and they have sublet a part of the work to the McGINTY CONTRACTING CO., Alliance, Ohio. The tracks of the Northern Ohio Traction & Light line will be used. This line will extend through Summit, Stark and Portland counties.

GALLIPOLIS, OHIO.—The Kananger Traction Co. contemplates the extension of its line from Point Pleasant, W. Va., to Addison, Ohio, four miles. A. E. Cordy, Gallipolis, Ohio, is Ch. Engr.

FORT WAYNE, IND.—Surveys have been made by the W. H. Schott Engineering Co., Chicago, Ill., for an electric line from Fort Wayne to New Haven. The abandoned canal bed will be used to Cecil and from there parallel the Wabash through Defiance to Napoleon here to Providence the canal will be followed through Texas, and the Clover Leaf track will be parallel from thence on to Toledo.

ILLINOIS.—Rumors now being circulated in Southern Illinois railroad circles are to the effect that the McKinley interurban interests are negotiating for the purchase of the Wabash, Chester & Western R. R., which extends from Mount Vernon to Chester, a distance of 50 miles. The McKinley interests completed a survey last summer which parallels the Illinois Central R. R., almost the entire distance between Cairo and East St. Louis. The line is now in operation between Cairo and Mounds and it is the intention of the promoters to resume the construction of the road as soon as weather conditions will permit. The road has connections with the Iron Mountain & Illinois Southern at Chester, the Mobile & Ohio at Percy, the Illinois Central at Pinckneyville and Tamaroa, the Chicago, Burlington & Quincy R. R. at Waltonville and the Louisville and Nashville Southwestern and Chicago and Eastern Illinois at Mount Vernon. W. B. McKinley, Champaign, Ill., is Pres. of The Illinois Traction System (McKinley Lines).

TAMPICO, ILL.—The Dixon, Rocky Falls & Southwestern R. R. Co., has been notified by the village authorities that electric operation must be substituted for the present steam power, or the tracks will be torn up.

WATAGA, ILL.—The Galesburg & Great Eastern R. R. Co., contemplates the electrifying of its road and extend it to Galesburg. A. J. Harms, Victoria, Ill., is Supt.

CLINTON, MO.—A line of about 30 miles connecting Clinton and Warsaw is projected, by the Continental Power & Development Co., of which S. O. Norris is a member.

AUSTIN, TEX.—The Austin Electric Ry. Co., has just been reorganized and its capital stock increased to $1,250,000. It will make important extensions and improvements to its city electric street railway system. The incorporators of the reorganized company are: R. C. Story of Boston, Mass.; William G. Bell and W. H. Folts of Austin.

HAMLIN, TEX.—A franchise, it is reported, has been granted to the Hamlin Street Ry. Co., to build a line to the Central Nazarene University.

UVALDE, TEX.—The Uvalde & Leona Valley Interurban R. R. Co., which operates a gasoline motor car line between Uvalde and Sansom contemplates extending the road to Batesville, a distance of about 25 miles. If the extension is made it is probable that the line will be equipped with electric transit. M. M. McFarland, Uvalde, Tex., is Gen Mgr.

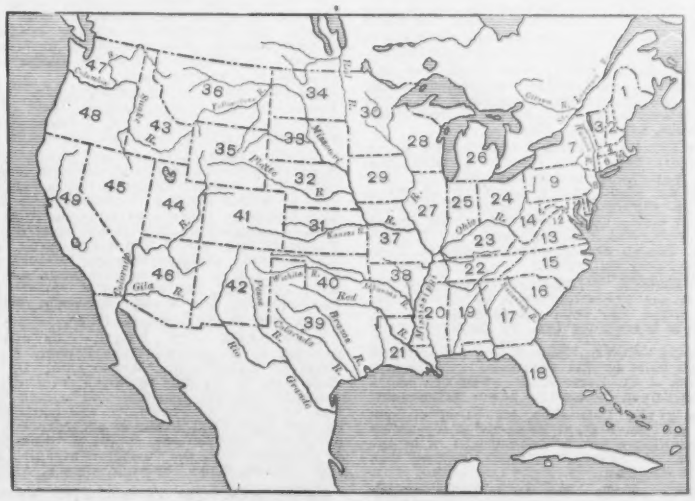
MUSKOGEE, OKLA.—Press reports state that an extension of the Muskogee Electric Traction Co., will be made into the Manufacturing section. R. D. Long, Muskogee, Okla., is Ch. Engr.

PORTLAND, ORE.—Press reports say that the Canadian Pacific Ry. Co. is about to build an electric railway from Portland to Seattle, Wash., using water power, engineers having reported that there is 400,000 horse power available along the proposed route.

CHICO, CAL.—Surveys have been made and rights of way obtained for the building of a line from Chico to Red Bluff and Redding, Cal., six miles of which has already been graded. This will be an extension of the Northern Electric railway now terminating at Chico. The company has recently obtained franchises from the board of supervisors of Glenn County and the board of trustees to operate in Glenn County and the city of Willows and has planned to enter other counties and cities in the valley.

FRENCH CAMP, CAL.—Having completed the grading between French Camp, a short distance outside of the Stockton city limits, and Modesta, & San Joaquin Electric Ry., has filed an application with the Board of Supervisors for a franchise over McKinley Ave., which reaches the water front, and would give the new line considerable through freight business. J. F. Peters is the fiscal agent of the company.

SAN LUIS OBISPO, CAL.—Plans are being made by J. E. McFee and A. M. Bianchi, for a traction line from Paso Robles to Cayucos and from San Luis Obispo to Simeon.



GEOGRAPHICAL ARRANGEMENT OF CONSTRUCTION NEWS ITEMS.

The arrangement of items in the Construction News Department which has been so satisfactory to the readers of the paper for many years will be continued. For the benefit of new subscribers who do not understand the system, the accompanying map is shown. In each department the items are grouped according to the states in which the work is contemplated, and are arranged in sequence of numbers, as shown on the map. The order is as follows:

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Tennessee, Kentucky, Ohio, Indiana, Michigan, Illinois, Wisconsin, Iowa, Minnesota, Kansas, Nebraska, South Dakota, North Dakota, Wyoming, Montana, Missouri, Arkansas, Texas, Oklahoma, Colorado, New Mexico, Idaho, Utah, Nevada, Arizona, Washington, Oregon, California, Alaska.

In Canada items are grouped in a similar order, beginning with the Maritime Provinces, then Quebec, Ontario, North West Territory, Saskatchewan, Alberta, British Columbia.

All classifications in Construction News use this order, except the railways. For railways, the items are arranged alphabetically, according to the name of the operating company. New incorporations and companies not in operation are indexed under the State in which the principal amount of track will be built, and this State is indexed alphabetically with the rest of the items under the heading Railways.

BRANTFORD, ONT.—A charter has been applied for an electric railway between Port Dover, on Lake Erie and Gimcoe, Waterford, Brantford, Paris and Galt, by the Lake Erie & Northern Ry. Co. The incorporators are: W. S. Brewster, John Muir, W. D. Schultz, R. E. Ryerson, all of Brantford, Ont.

VICTORIA, B. C.—The engineering staff of the British Columbia Electric Ry. Co., is making progress with the proposed extension of the railway system to the Saanich peninsula. The route has been located as far as Todd Inlet.

REGINA, SASK.—See item under Miscellaneous Contracts: Railway Cars.

GUANAJUATO, MEX.—Arrangements are being made by a French syndicate, represented by E. Brunel, French consular representative at Irapuato, Mex., for the construction of an extension system of interurban electric railways in the state of Guanajuato. The syndicate is negotiating for the purchase of the street railways of the city of Guanajuato, an offer of $600,000 Mexican currency having been made to Gov. Obregon Gonzales, the principal owner, for the property. The syndicate has already acquired the concession for the construction of the Morelia & Tacambaro Ry., the grade for which is partly finished. It is planned by Mr. Brunel and associates to construct a system of electric railways to unite the cities of Leon, Guanajuato and Irapuato. More than 60 miles of track will be built, exclusive of the street railway systems in the three cities which the syndicate is arranging to obtain control. The syndicate pledges itself to expend not less than $4,000,000 gold in the fulfillment of the project.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids were received Dec. 30, by Manus J. Fish, Supt. Pub. Wks., for installing electrical apparatus in Curter Hall, Jamaica Plains, at follows: EDWIN C. LEWIS, $4,471 (awarded contract); T. T. Kelly & Co., $4,882; A. C. G. Luke Co., $8,000.

BURLINGTON, MASS.—At a recent election the citizens voted to make a contract with the EDISON ELECTRIC CO., Boston, Mass., to furnish 25 street lamps.

LEOMINSTER, MASS.—It is proposed to make a new contract with the Leominster Electric Light & Power Co. for lighting the streets. With the existing contract $105 each per year is paid for arc lamps for all-night service, and $75 per lamp for those burning until one o'clock. The contemplated change includes the substitution of 80 c. p. and 60 c. p. for the arc lights. R. S. Gavitt, Leominster, Mass., is Local Mgr.

NEW HAVEN, CONN.—The contract for the construction of a new brick addition to the power house of the Connecticut Co. has been awarded to the GILETTE CONSTRUCTION CO., and the LORD & LAKE CO.

WINDSOR LOCKS, CONN.—The stockholders of The Connecticut River Co., voted to accept the amendment to the charter obtained from the Legislature giving the company the right to construct additional dams and to erect and maintain a power station.

BUFFALO, N. Y. — The International Bridge Co. has permit for $9,000 powerhouse, on Niagara St., near Wayne.

ROME, N. Y.—The contract for lighting the streets for the terms of five years has been awarded to the ROME ELECTRIC LIGHT & POWER CO., at $83 per year for arc lamps.

NEW YORK, N. Y.—The contract for furnishing 500 posts for tungsten lights to be used in the park, has been awarded to ELMER P. MORRIS CO., 90 West St., New York.

NEW YORK, N. Y.—Application has been made to the Public Service Commission by Frederick W. Whittridge, receiver for the Forty-Second St., Manhattanville & St. Nicholas Ave. Ry. Co., to change the motive power on the 110th St. Crosstown line to storage battery.

GIBBSBORO, N. J.—A municipal electric light plant is under consideration.

HARRISON, N. J.—The Town Council plans to erect arches across Harrison Ave. every 100 ft. and place twelve Madga lamps on each arch. The system may be extended along the turnpike to the Hackensack River, about 6 miles. In the open country the arches will be placed 200 ft. apart.

HILLSBORO, N. J.—See item under Water Supply-Irrigation.

CONNEAUTVILLE, PA.—There is a movement to build an electric light plant at this place. The matter of a franchise is now before the Council.

LANCASTER, PA.—Bids will be received at the office of the City Controller, City Hall, Lancaster, Pa., until Jan. 17, for an electrically driven centrifugal pump having a capacity of 10,000,000 gallons in 24 hours. Plans and specifications can be seen at the office of the Superintendent of Water-Works, Lancaster, Pa. J. H. Rathfon is City Cont.

PHILADELPHIA, PA.—The contract for the construction of a power plant at 44th and Thompson Sts., for Chalfonte Bros., 1214 Belmont Ave., this city, has been awarded to JAMES M. HOLM, 5556 Arch St., Philadelphia. The building will be of brick with concrete foundations for the walls, boilers, engine, etc., two stories 37 x 37 ft., and will cost about $10,000, which does not include any equipment, contracts for which have not been placed. Ballinger & Perrott, 1211 Arch. St., this city, are Archs. and Engrs., and will award equipment contracts.

POTTSTOWN, PA.—A contract has been awarded by the Suburban Gas & Electric Co. to the WESTINGHOUSE MACHINE CO., Pittsburg, Pa., for a 625-KW. turbine, and to the WESTINGHOUSE ELECTRIC & MANUFACTURING CO., for a 2,300-volt generator.

STEELTON, PA.—The Steelton Light, Heat & Power Co., which buys the power at present contemplates the erection of a generating station. Fred. E. Keeney, Steelton, Pa., is Supt. and Ch. Electrician.

WYOMISSING, PA.—See item under Water Supply-Irrigation.

WILMINGTON, DEL.—In connection with the conversion of the power-house of the Wilmington City Railway Co., on Delaware Ave. into a car barn for the Wilmington & Philadelphia Traction Co., it is reported, that the company will make extensive alterations at the plant there. W. T. Spring, Wilmington, Del., is Vice-Pres. and Contract Agent.

SALISBURY, MD.—Contract for street lighting has been awarded by the City Council to the SALISBURY LIGHT, HEAT & POWER CO. for three years. The company will furnish 16 c. p. incandescent lamps at 45 cts. per lamp per month for all-night service. Arc lamps will be furnished at $5 each per month.

BLUEFIELD, W. VA.—The Norfolk & Western Ry. is considering an addition to the local power house. John A. Pitcher, Roanoke, Va., is Mec. Engr.

ATLANTA, GA.—Press reports are to the effect that the Georgia Power Co. has awarded to the NORTHERN CONSTRUCTION CO., Detroit, Mich., contracts for the development of power at Tallulah, Falls. A dam 50 ft. high and a tunnel 1½ miles long will be built. Transmission lines will be carried on steel towers, the pressure being 100,000 volts. There will be 150 miles of transmission lines. The complete installation will consist of six 8,000 KW. generators driven by impulse wheels under a 600-ft. head. The initial contract calls for only three units.

ROBERTA, GA.—An electric light plant is contemplated by W. J. Marshall, R. F. D., Lizella, Ga.

MONTGOMERY, ALA.—The Montgomery Light & Water-Power Co., according to press reports, will double capacity of gas plant; renew retorts, etc., and construct additional gas tanks at an estimated cost of about $100,000. R. M. Chambers, Montgomery, Ala., is Mgr.

SAYRE, ALA.—The Sayre Mining Co. contemplates the installation of an electric plant, the current from which will be used on its own properties. A bond issue of $25,000 has been authorized to provide the funds.

CROWLEY, LA.—The municipal electric light plant will purchase additional equipment including one 110-HP. engine; one 150-KW. and one 75 KW. generator.

CHATTANOOGA, TENN.—The Ocoil Construction Co., Ocoil, Tenn., which has the general contract for a power plant on the Ocoil River has awarded contracts for electrical equipment to the WESTINGHOUSE ELECTRIC & MANUFACTURING CO., Pittsburg, Pa., and for the wheels to the S. MORGAN SMITH CO., York, Pa.

ETOWAH, TENN.—A new company contempates the building of an electric light and power plant. The cost is estimated at $50,000. Bids will be received April 1. T. F. Peck is Secy. and Gen. Mgr.

AKRON, OHIO.—The Northern Ohio Power Co., of Akron, Ohio, has been incorporated for the purpose of erecting a number of electric power plants in Summit County to supply current in that county and surrounding counties. The incorporators are Will Christy, Charles Currie, Charles H. Lohr, C. F. Moore and N. O. Mather of Akron.

COLUMBUS, OHIO.—In connection with other work at the Penitentiary noted Dec. 27, a conduit is being considered. This will supply electricity to the different institutions from the power plant at the penitentiary.

LANCASTER, OHIO.—The contract for furnishing additional compressor piping, at the Boys' Industrial School, Lancaster, Ohio, has been awarded to the LAIDLAW-DUN-GORDON CO., Cincinnati, Ohio.

NORTH BALTIMORE, OHIO.—The North Baltimore Service Co. of North Baltimore, has been incorporated to build a gas producing plant and to erect an electrical plant to supply gas and electricity for commercial uses. The incorporators are Arthur J. Darton, Ralph S. Holbrook, W. L. Holbrook, Joseph Stemens and Claude R. Banker of North Baltimore.

ST. MARYS, OHIO.—The contract to install a gas producing plant in the electric light plant has been awarded to the ST. MARY'S MACHINE CO., at $18,500.

BEECH GROVE, IND.—A new power-house will be built by the Cleveland, Cincinnati, Chicago, & St. Louis R. R. The new shops will be driven by electric power throughout.

GAS CITY, IND.—The Municipal electric light and water plant recently destroyed by fire entailing a loss of $40,000 will, it is announced be rebuilt. Thomas McKee, Gas City, is Ch. Engr.

FLINT, MICH. — See item under Water Supply—Irrigation.

LANSING, MICH.—The State R. R. Commission has been petitioned by the Au Sable Electric Power Co. for permission to issue $450,000 of bonds. The proceeds will be used to build a transmission line from the power plant at Au Sable, to Saginaw, Flint, Owosso, Lansing, and other places in that vicinity.

KAUKAUNA, WIS.—The citizens have voted to buy the plant of the Kaukauna Gas, Electric Light & Power Co.

MARINETTE, WIS.—The development of about 6,000-HP. at the Chappie Rapids of the Menominee River, about four miles north of Marinette is contemplated. Isaac Stephenson, Marinette, Wis., is interested.

ADAIR, IOWA.—At a recent election bonds to the extent of $10,000 were voted to construct a municipal electric light plant. J. J. Hayden is Town Clerk.

MARSHALLTOWN, IOWA.—See item under Water Supply—Irrigation.

DULUTH, MINN.—The Great Northern Power Co., it is said, will spend about $1,000,000 this year in building extensions, a sub-station in Superior, and duplicate line. The company is continually enlarging its reservoirs and gathering additional watershed. W. V. Ryerson, Duluth, Minn., Mgr. and Ch. Engr.

TOWER, MINN.—The City Council at a recent meeting decided to submit to the voters of this city the proposition of voting enough bonds to build a power plant at Pike River Falls for the municipal lighting plant. The amount necessary to be raised is estimated at from $10,000 to $15,000.

WHITE CITY, KAN.—Plans and specifications are being prepared by Burns & McDonnell, Scarrett Bldg., Kansas City, Mo., for municipal water-works and lighting plant. Approximate cost $35,000.

FAIRBURG, NEB.—See item under Water Supply—Irrigation.

OAKES, N. DAK.—A proposition has been made by E. Marshall, St. Paul, Minn., and E. M. Pope, Watertown, S. Dak., to build an electric lighting plant. This is being considered by the Council.

STANLEY, N. DAK.—John I. Moore, Minot, N. Dak., has made application to the village authorities to build an electric light plant.

UPTON, WYO.—Burns & McDonnell, Kansas City, Mo., are preparing plans for an electric light and water plant.

TROY, MONT.—See item under Water Supply-Irrigation.

TALFURRIAS, TEX. — G. W. Smith, of Cleveland, Ohio, has purchased the Talfurrias Power Co. here from Ed. Lasater and will make improvements and extensions.

MARBLE FALLS, TEX.—Charles A. Alexander and associates who are building a dam across the Colorado River and installing a hydroelectric plant at this place have adopted plans for building another dam across the river near here and a third one is contemplated, the latter to be located at Austin. At each of these additional proposed dams hydroelectric plants will be installed. It is stated by Mr. Alexander that he has already entered into contracts with the cities of San Antonio and Waco and several smaller towns, situated within a radius of one hundred miles of Marble Falls for the sale of light and power, and that he is now negotiating with the municipal commission of Austin for a contract of similar character.

WACO, TEX. — The proposition to erect a municipal electric light and power plant here will soon be definitely acted upon by the city authorities. It is planned to issue $250,000 bonds for the purpose.

WEATHERFORD, TEX.—The Crystal Ice Co., of this place has obtained authority from the Secretary of State of Texas to install and operate an electric light and power plant.

WEIMER, TEX.—The Weimer Water, Light, Ice & Cold Storage Co., which was recently organized has taken over the electric light plant here and will enlarge and improve it by installing additional machinery. William Hillje Weiner is Prest.

PALISADES, COLO.—A franchise has been granted permission to the Municipal Light, Power & Telephone Co. to string wires. The new company will furnish a 24-hour. service. The plant of the Palisades Light & Power Co. has been purchased by Hendrie & Bolthoff, Denver, Colo., for $7,000.

CLOVIS, N. MEX. — An electric power plant with a system of transmission lines to the farms in the vicinity is under consideration by W. D. McBee, Clovis, N. Mex. This power will be used to operate irrigating pumping plants. The cost of the work is estimated at $300,000 and about 12,000 acres of land will be reclaimed.

SILVER CITY, N. MEX.—The Gila River Power Co. has filed application for power rights in the Gila River. It is expected that about 15,000-HP. will be developed.

BOISE, IDAHO.—The Boise Power, Light & Traction Co. has filed articles of incorporation. The company is capitalized at $1,000,000, of which amount it is said fully one-half has been subscribed in preparation for actual construction of a power plant on the Payette River above Horseshoe Bend, and for extension of lines through Western and Southern Idaho. The proposed plant will develop 5,000-HP., and will cost $1,000,000. The incorporators are S. K. Atkinson, Morris Myers and W. C. Lock, of Boise, Idaho.

SALT LAKE CITY, UTAH.—Bids will be received at the office of the Superv. Arch., Treasury Department, Washington, D. C., until Feb. 3, for the extension, remodeling, including electric conduits and wiring system, of the U. S. Post-office and courthouse at Salt Lake City, Utah, in accordance with plans and specifications, copies of which may be obtained from the custodian at Salt Lake City. James Knox Taylor is Superv. Arch.

RENO, NEV.—The Truckee River General Electric Co. plans the construction of a new power plant near Verdi. This will include th construction of a dam across the Truckee River and the erection of a power-house. About 3,000-HP. will be developed.

CAMAS, WASH.—Press advices state that if a franchise is secured E. E. Goff, Portland, Ore., will build a 500-HP. electric plant on the Washougal River.

WALLA WALLA, WASH.—The construction of a 6-000-volt distribution line that will tap 28 sq. miles in the Freewater territory and furnish pumping power for 61 growers from its very beginning will commence soon, according to an official announcement made by W. Foshay, local manager of the Pacific Power & Light Co. The line will run from the Freewater substation and will extend to within two miles of Gardena, covering a territory of 3½ miles wide and eight miles long.

KLAMATH FALLS, ORE.—A municipal electric lighting plant is being agitated. George B. Frank is one of the prime movers.

FREEWATER, ORE.—Press advices are to the effect that the Pacific Power & Light Co. will build a transmission line to Gardena, about eight miles.

EUREKA, CAL.—A plan is being considered to build a municipal lighting and telephone.

SAN FRANCISCO, CAL.—Press advices are as follows: The Yosemite Power Co. was incorporated recently with a capital of $10,000,000. John Hays Hammond, the mining engineer, has made the first move toward creating the largest power transmitting concern on the western continent, and has taken the preliminary step toward entering San Francisco as a competitor of the larger electric distributing companies now operating in the counties. The incorporation of the Yosemite Power Co. will be followed immediately by absorbing two of the largest power companies in Northern California. One is the Tuolumne Light and Power Co., one of the oldest in the State. The other is the Tuolumne River Power Co. These two companies have a total capacity of 100,000-HP. which exceeds by 60,000 HP. the largest electric corporation on the Coast. Jointly the two companies own and control practically all of the upper Tuolumne watershed, along with valuable reservoir and water rights on the south and the middle forks of the Tuolumne and are within 110 miles of John Hays Hammond's main objective point of distribution.

SAN FRANCISCO, CAL.—The Board of Supervisors granted permission to the Equitable Light & Power Co., to erect and maintain three additional boilers of 500 HP. each in the premises at Market and O'Farrell Sts., to be used for heating purposes.

SAN JACINTO, CAL.—The power water rights for practically all the water in the North and South parts of the Strawberry Creek have been secured by the Ramona Power Co. The company has purchased a reservoir sight below Idyllwild. Irrigation rights for the water are already owned, and after the energy from the fall has been used the water will be turned back for irrigation purposes.

TIBURON, CAL.—The contract for the construction of a power plant at the naval coaling station has been awarded to SNARE & TRIEST, 143 Liberty St., New York, N. Y., at $22,900.

WILLOWS, CAL.—A franchise granting power to erect poles and stretch wires in the town of Willows for the purpose of carrying electricity for commercial purposes, has been sold to C. R. Wickeslast by the Town Trustees.

AMHERST, N. S.—The Canada Electric Lt. Co., Ltd., has decided to expend $15,000 on extensions and improvements to its plant, the city having agreed to take double the number of lights now used. Charles Bert, Amherst, N. S., is Ch. Engr.

AROOSTOOK FALLS, N. B.—The contract for a unit of water wheels to be installed at Aroostook Falls, New Brunswick, for the Main & New Brunswick Electrical Power Co., has been awarded to S. MORGAN SMITH CO., York, Pa. This unit will develop 2,400-HP., under a head of 72 ft. A. R. Gould, Presque Isle, Me., is Mng. Director.

NANAIMO, B. C.—The British Columbia Hydraulic Power Co., 415 Winch Bldg., Vancouver, B. C., has applied for 300 cu. ft. of water per sec., from Nanaimo Falls for electrical power development.

PENTICTON, B. C.—See item under Water Supply-Irrigation.

BRIDGES.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—See item under Miscellaneous Contracts: Canal.

MANCHESTER, MASS.—We are officially advised that plans for the reconstruction of a drawbridge here for the Boston & Maine R. R. Co. are being prepared by the Strauss Bascule Bridge Co., 134 Monroe St. Chicago, Ill.

OSWEGO, N. Y.—The New York Central R. R. Co. has completed plans for the construction of a new railroad bridge across the Oswego River here. Estimated cost, between $100,000 and $125,000. G. W. Kittredge is Ch. Engr.

NORTHAMPTON BEACH (L. I.), N. Y.—On Jan. 4 the citizens voted to construct a new bridge over the canal. Estimated cost, $8,000.

WARSAW, N. Y.—The town is considering the construction of a bridge across Oatka Creek.

ALBION, N. Y.—The village has accepted the offer of the New York Central R. R. Co. to raise the overhead highway bridge across the company's tracks at Clarendon St. to a height of 21 ft. G. W. Kittredge is Ch. Engr., New York.

WYOMING, PA.—The Grand Jury has recommended the construction of a bridge over the Susquehanna River here.

READING, PA.—We are officially advised that plans for the construction of a reinforced concrete bridge on concrete foundation at the foot of Penn St. are being prepared. Estimated cost, $350,000. C. F. Sanders is County Engr. Noted on Jan. 5.

KUTZTOWN, PA.—Plans for the construction of a new bridge over Suacony Creek at the lower end of Main St. will be prepared by the Borough Surveyor. The bridge will be built to carry trolley tracks and will have 12-ft. sidewalks on each side of the roadway.

PHILADELPHIA, PA.—Bids are asked by the Philadelphia & Reading Ry. Co., Reading Terminal, Philadelphia, until noon, Jan. 17, on Track Elevation Contract No. 53, which consists of the construction of platforms and bridges over Percy St. at the

plant of the Powers-Weightman-Rosengarten Co. at Parrish St. W. Hunter, Reading Terminal is Ch. Engr.

*WASHINGTON, D. C.—Bids will be received until 2 p. m., Jan. 23, by the commissioners of the District of Columbia for strengthening and stiffening the iron bridge across Rock Creek in the line of Calvert St. (Bridge No. 30).

FREDERICKSBURG, VA.—The Supervisors of Spotsylvania County have decided to build bridges over Hazel Run and Massaponax Run. The bridges will be either concrete or steel.

BENWOOD, W. VA.—The Baltimore & Ohio R. R. Co., it is reported, will construct a double-track bridge over Fish Creek near here. W. Thompson is Ch. Engr., Baltimore, Md.

MORGANTOWN, W. VA.—The Buckhannon & Northern R. R. Co., S. D. Brady, Ch. Engr., Morgantown, will construct 10,000 yds. of masonry bridges in connection with 32 miles of railroad from Pennsylvania-West Virginia state line to Rivesville, W. Va.

*GRANTSVILLE, W. VA.—Calhoun County will construct a bridge across the Little Kanawha River, middle span to be 235 ft. long with 16-ft. roadway and approaches 60 ft. long; two spans on either side of 100 ft. each. The middle span will cost $25 per ft.; spans on either side $10 to $12 per ft.; cost of masonry $15,000. The contract for steel work will be awarded next summer. T. R. Stump is Engr.-in-Charge.

OCILLA, GA.—The Commissioners of Roads and Revenue of Irwin County, H. T. Fletcher, Chn., Ocilla, will receive bids until noon, Feb. 6, for the construction of a steel bridge over Alapha River on Irwinville and Tifton public road. The structure will consist of four 100-ft. spans on concrete abutments and steel cylinder piers. Plans and specifications are on file at the office of the Board. G. T. Young, Clk.

ROME, GA.—The County Commissioners are planning to construct 240 culverts and 60 steel bridges on the main county highways during the next two years. Estimated cost, $100,000.

NASHVILLE, TENN.—The Nashville-Gallatin Interurban Ry. Co., H. H. Mayberry, Pres., Franklin, Tenn., will construct four 100-ft. steel bridges with rock piers and other smaller steel bridges in connection with the construction of 30 miles of railway from Nashville to Gallatin, Tenn.

MAYSVILLE, KY.—The contract for the grading, for the double-track and the erection of six bridges on the Chesapeake & Ohio Ry., between Lawrence Creek and Foster, was awarded on Dec. 29 to WILLIAM IRELAND, Maysville.

LOUISVILLE, KY.—The Kentucky & Indiana Terminal R. R. Co. has sold bonds, the proceeds to be used in paying existing mortgages on the property and the building of a new double-track bridge across the Ohio River, from Louisville to New Albany, Ind.

AKRON, OHIO.—Preliminary plans are being prepared for the construction of a bridge at Kelley Ave. Estimated cost, $15,000.

ZANESVILLE, OHIO.—The County Commissioners on Dec. 28 considered the bids for the work on the substructure of the new Fifth St. bridge and rejected them. New bids will be asked.

CINCINNATI, OHIO.—The city is considering the construction of a bridge to be known as the East Ridgeway Ave. bridge. F. H. Shipley is City Engr.

CLEVELAND, OHIO.—The new high-level bridge to connect Superior and Detroit Aves., will be a straight-line bridge. This was decided by the County Commissioners on Jan. 3. Resolutions were also adopted authorizing the County Engineer to prepare sketches and estimates of cost for a bridge 120 ft. wide. Car tracks will be separated from vehicle and other traffic. The bridge will be 3,150 ft. long. The Merwin Ave. route is 3,250 ft. long. The old viaduct is about 3,200 ft. long. Frank Lander is County Engr.

EDWARDSPORT, IND.—The Commissioners of Knox and Daviess Counties have awarded the contract to the VINCENNES BRIDGE CO., for the construction of a bridge across the White River at Edwardsport, at $16,548.

INDIANAPOLIS, IND.—The Commissioners of Marion County will receive bids until 10 a. m., Jan. 18, for the construction of a bridge across the canal at College Ave., in Washington Township. Albert Sahm is County Audr.

NORMAL, IND.—The city is considering the construction of a new concrete bridge across Sugar Creek on Virginia Ave. G. C. Broyhill is City Engr.

INDIANAPOLIS, IND.—The Park Board on Dec. 27 submitted plans to the Board of County Commissioners for the construction of a bridge over Fall Creek at Capitol Ave. The sum of $85,000 was appropriated by the Commissioners for the work last September. Blaine H. Miller is City Engr.

CHICAGO, ILL.—Bids will be received by the city at the office of B. J. Mullaney, Comr. Pub. Wks., until 11 a. m., Jan. 14, for furnishing and delivering at the various bridges and viaducts in the city all the lumber of various kinds, sizes, length, etc., that may be required and ordered during the period ending June 30, 1911.

CHICAGO, ILL.—See item under Streets and Roads.

BATAVIA, ILL.—The State Highway Commission, Springfield, Ill., has had plans and specifications prepared for the construction of the Wilson St. bridge here.

IOWA FALLS, IOWA.—We are officially advised that the Commercial Club, of Iowa Falls, will soon take up with the county the matter of the construction of a wagon and foot bridge over the Iowa River at this point. Preliminary to submitting the matter to the board, the club is seeking estimates and plans for the structure which will be over 300 ft. long. F. E. Foster is Secy.

ST. CLOUD, MINN.—Plans have been prepared by S. S. Chute, City Engr., for paving the St. Germain St. bridge. The plans call for four lines of 40-lb. I-beams. The old wooden stringers at present under the bridge will be used for strengthening the beams. Estimated cost, about $7,500.

PIERRE, S. DAK.—The Commissioners of Hughes County have decided upon a large amount of highway improvement for this year, much of which will be in the shape of steel bridges, where the same are considered necessary for such improvement.

HARDIN, MONT.—The Secretary of the Interior has authorized the Commissioner of Indian Affairs to apply $10,000 to assist the counties of Rosebud and Yellowstone in the construction of a bridge across the Big Horn River, southeast of here.

*KANSAS CITY, MO.—Bids will be received by the Board Public Works until Jan. 30, for the construction of two concrete bridges, as follows: A reinforced concrete arch bridge over the Blue River at 15th St., in which there will be approximately 3,600 cu. yds. of concrete, 300,000 lbs. of steel and 1,260 sq. yds. of creosoted block pavement; a reinforced concrete arch bridge over Brush Creek at Cleveland Ave., containing 900 cu. yds. of concrete, 80,000 lbs. of metal and 360 sq. yds. of creosoted block pavement. Bids may be made upon each bridge separately or they may both be included in one bid. Plans and specifications are on file in the office of the Board of Public Works, or bidders may obtain copies by application to Waddell & Harrington, Engrs., Leslie-Orear Bldg., Kansas City, on payment of $25.

DALLAS, TEX.—Bids will be received by George L. Fearn, County Audr., of Dallas County, until 10 a. m., Jan. 14, for the construction of a 70-ft. steel span bridge, with 16-ft. roadways.

CHICKASHA, OKLA.—The Chicago, Rock Island & Pacific Ry. Co., J. B. Berry, Ch. Engr., Chicago, Ill., is arranging for the construction of the proposed viaduct over the company's tracks at Choctaw Ave. Estimated cost, about $90,000.

GUTHRIE, OKLA.—G. W. Etter, Supt., Oklahoma Division, Gulf, Colorado & Santa Fe Ry. Co.; John W. Shartel, for the Guthrie St. Ry. Co., and A. O. Farquharson, Mayor, for the city of Guthrie, have signed contracts for the construction of a viaduct 40 ft. wide and 800 ft. long over the tracks of Gulf, Colorado & Santa Fe Ry. and Fort Smith & Western R. R. and over Cottonwood River.

ZILLAH, WASH.—A new bridge will be constructed across the Yakima River, after high water next spring, to be constructed of steel with concrete pillars.

PORTLAND, ORE.—Plans for the construction of the proposed new steel bridge across the Willamette River to connect Meade and Ellsworth St., were completed by J. W. Morris, City Engr., on Jan. 4. Noted on Jan. 5.

SPRINGFIELD, ORE.—The Southern Pacific Ry. Co., it is reported, will construct bridges here and at Harrisburg, Ore. W. Hood is Ch. Engr., San Francisco, Cal.

PORTLAND, ORE.—Bids were received as follows on Dec. 30, by the city for the substructure of the Broadway bridge: Union Bridge & Construction Co., Kansas City, Mo., $557,645; Missouri Valley Bridge & Iron Co., $565,953; Porter Bros., $685,660; Robert Wakefield, $707,180; Bates & Rogers Construction Co., $678,287.

FRENCH CAMP, CAL.—See item under Electric Railways.

SAN FRANCISCO, CAL.—Bids will be received by the Board of Public Works until 10 a. m., Jan. 16, for the construction of a bridge over the tracks of the Southern Pacific Ry. Co. between Richland Ave. and Miguel St. Marsden Manson is City Engr.

LOS ANGELES, CAL.—The Southern Pacific Ry. Co. will construct a drawbridge of the bascule type, across the channel leading to the west basin in Los Angeles Harbor. The bridge will be 180 ft. clear span and capable of opening in 60 seconds. Trestles will be built for 100 ft. on each side of the bridge. W. Hood is Ch. Engr., San Francisco.

LOS ANGELES, CAL.—I. B. Noble, County Surv., has prepared plans for the construction of a bridge to cross the Arroyo Seco. The plans provide for a structure 1,200 ft. long with six 90-ft. concrete arches. The roadway will be 50 ft., with a 16-ft. segregated way for the Salt Lake R. R. tracks. Hand railings and ornamental pylons, with decorated lights, will be included. The sum available for the construction is $144,000.

PASADENA, CAL.—ANDREW HOLLOWAY, 16 South Raymond Ave., has been awarded the contract for constructing a reinforced concrete bridge and retaining walls north of Prospect Square for the Arroyo Park Corporation. The bridge will be 355 ft. long, over all, 190 ft. being in a straight line and 65 ft. on a curve; 50 ft. high with 20-ft. roadway and 5-ft. cantilever sidewalks on each side; 30 ft. wide over all. Galvanized pipe railings will be used with 15-in. curbs, pebble-dash finish, four electroliers, pilasters. About 700 yds. of concrete and 50 tons of steel will be required. Estimated cost, $15,000.

SAN FRANCISCO, CAL.—See item under Streets and Roads.

EDMONTON, ALTA.—The City Council has voted $167,000 for the construction of another steel bridge across the Saskatchewan River and $12,000 for a concrete subway.

BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—A new Children's Hospital, in the vicinity of the Harvard Medical School, to cost $500,000, is planned for this spring. The plant will consist of ten buildings, of which the largest will be 226 × 132 ft. Francis W. Hunnewell is Pres. of Bd. of Mgrs.

A new court house is planned for the East Boston District, to be constructed at an early date. Manus J. Fish is Supt. of Public Bldgs.

The following bids were received on Jan. 3 by Charles Logue, Chn. School House Comn., for an elementary school house in Roger Wolcott District: McGahey & O'Connor, $45,700; A. Varnerine Co., Inc., $49,737; Cunningham Construction Co., Lynn, $51,480; Whiton & Haynes Co., $51,575; J. E. Locatelli & Sons Co., $51,620; J. T. Griffin & Co., $51,545; William Crane, $52,154; F. C. Alexander, $54,981. No awards have been made.

MILFORD, MASS.—A State Armory will be erected here. It will be of brick construction, requiring a plot 125 × 250 ft. Bids will be advertised for soon. The estimated cost is $50,000. Capt. Pond Milford is interested.

PROVIDENCE, R. I.—A parochial school and rectory building will be constructed by St. Ann's Church. Four lots located between Monticello St. and Branch Ave. have been purchased by the Rev. Anthony Bove and construction work will soon commence.

BUFFALO, N. Y.—Announcement is made by Mayor Fuhrman in his annual message that plans have been completed for an Exposition Building and Convention Hall to be erected on the Broadway Arsenal site and bids for construction of same will soon be advertised for.

The Congregation of the Church of St. Anthony of Padua, R. C., has plans in preparation by Architect John H. Coxhead, 928 Ellicott Square, for a 3-story brick and stone parochial school building, to be erected at The Terrace and Court St. Estimated cost, $60,000. Rev. Angelo Strazzoni, Pastor, 160 Court St.

The City Council has voted to erect a general hospital by the city of Buffalo to contain at least 700 beds, unit plan of construction, fireproof. Estimated cost, $150,000, probable location at Kensington Ave., Grider St. and East Delavan Ave., on a site of 81 acres. Francis E. Fronczok, Health Comr., Municipal Bldg., is interested.

George Setter, Arch., 2003 Seneca St., is preparing plans for a church building 70 × 180 ft., of brick and structural iron, to be erected at Seneca and Ryan Sts., by St. Mathew's Church, Rev. Geo. Sellinger, Pastor, 44 Schuele Ave. Estimated cost, $55,000.

Swift & Co., of Chicago, has purchased a site at East Market St. and the New York Central R. R., and will build a storage and distributing depot on same.

BUFFALO, N. Y.—Max G. Bierl, Arch., 371 Pearl St., has plans in preparation for a church edifice for the St. Francis R. C. Church on East St., near Hamilton St. Rev. Chas. Schaus, Pastor, 157 East St.

SYRACUSE, N. Y.—Russell & King, Syracure, are preparing plans for an edifice, 112 × 144 ft., for the St. Anthony's de Padua Congregation. The estimated cost is $100,000. The Rev. Francis Quinn is Pastor.

OSWEGO, N. Y.—It is reported that bids will be received this month for the erection of a 4-story fireproof hotel to be erected by the Oswego Hotel Corporation, J. D. Higgins, Pres. Plans have been prepared by George B. Post & Sons, 347 Fifth Ave. The estimated cost is $125,000.

YONKERS, N. Y.—The contract has been awarded to the RICHARD CARVEL CO., 403 West 59th St., New York, for the erection of a 1-story stone edifice at Lowerre, Yonkers, for the Church of St. Denis. Plans have been prepared by Arch. John Kirby, 481 Fifth Ave., New York. Rev. R. O. Hughes is Rector. The estimated cost is $50,000.

LONG BEACH (L. I.), N. Y.—Plans are being prepared by the Bungalet Designing & Building Co. for the erection of a 70-room apartment to be erected at Long Beach. The estimated cost is $70,000.

NEW YORK, N. Y.—Bids will be received by C. B. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., until 3 p. m., Jan. 15, for the general excavation, etc. (Contract No. 1), for the first portion of the new Normal College buildings (the Thomas Hunter Hall), on the westerly side of Lexington Ave., between 68th and 69th Sts., Boro. of Manhattan. Plans and specifications may be seen at the office of the Supt. of School Bldgs.

Harris Willner, Tenth Ave. and 40th St., Brooklyn, will erect a 4-story flat, 39 × 100 ft., at Third Ave. and 90th St., Brooklyn. The estimated cost is $50,000. Plans have been prepared by Shampan & Shampan, 772 Broadway, Brooklyn.

Nast & Springsteen, 21 West 45th St., have prepared plans for alterations to the 5-story building for William J. Rach, Mt. Vernon, N. Y.

Plans have been completed by M. W. Del Gaudio, 1910 Webster Ave., for a 5-story tenement and store building, 50 × 87 ft., to be erected on the east side of Hughes Ave., 100 ft. south of 186th St. The estimated cost is $60,000. Angelo D. Benedetto, 541 East 182d St., is the owner.

Estimates on labor and materials have been taken by the Cerra Realty & Construction Co., 2159 Belmont Ave., for the erection of a 5-story building, 41 × 100 ft., on Menhegan Ave., south of 100th St. The estimated cost is $50,000. M. W. Del Gaudio, 1910 Webster Ave., is the Arch.

The Sloane Bros. will erect at the southeast corner of Fifth Ave. and 47th St. an 8-story building. Plans have been prepared by J. B. Snook's Sons. The estimated cost is $400,000. Charles T. Wills has the general contract.

Plans have been completed by Samuel Sass, 32 Union Sq., for two 6-story buildings to be erected at the north side of 130th St., 100 ft. west of Amsterdam Ave. The estimated cost is $110,000. Nestor Holding Co., 302 Broadway, is the owner.

Two 5-story buildings, 41.11 × 88 × 57 × 90 ft., will be erected by the McAfee Construction Co., 339 West 84th St., at the southwest corner of Wadsworth Ave. and 177th St. The estimated cost is $117,000. J. C. Cocker, 2017 Fifth Ave., has prepared the plans.

Revised plans are being prepared by Golder & Goldberg, 704 Jackson Ave., for the erection of a 6-story fireproof brick, steel and limestone building to be erected at 760-762 Greenwich St. The estimated cost is $70,000. The building will be 34 × 60 × 75 ft., with an extension of 31 × 88 ft., to be erected by the Froma Realty Co., 63 Park Row.

John C. Garlitman, 2521 Grand Ave., will erect at Townsend Ave., 70 ft. north of 175th St., a 4-story building, 30 × 35 ft. Plans are being prepared by John Brandt, 271 West 125th St. The estimated cost is $50,000.

Bids are being asked by C. Carocci, 643 East 183d St., on material and labor for the erection of two 5-story buildings to be erected at the southwest corner of Crotona Pl. and 176th St., each to cost $50,000. Plans have been prepared by M. W. Del Gaudio, 1910 Webster Ave.

Estimates will be received about Jan. 15 by Robert E. Moss, Engr., 126 Liberty St., for four 8-story brick warehouses, 100 × 100 ft. each., at Greenwich, Washington, Morton and Barrow Sts. The St. John's Park Realty Co., W. D. Kilpatrick, Pres., will erect the buildings.

Delano & Aldrich, Archs., 4 East 39th St., are receiving estimates for extensive alterations at the Union League, corner of Fifth Ave. and 39th St. The estimated cost is $50,000. George R. Sheldon is Pres. of the Club.

Plans are being prepared by Sommerfeld & Steckler, Archs., 19 Union Sq., for the erection of a 7-story loft building, 150 × 126 ft., at Broome and Lewis Sts. L. Minsky, 236 Eldridge St., is the owner. The estimated cost is $200,000.

Plans are being prepared by Frank J. Helmle, 190 Montague St., Brooklyn, for the construction of a 4-story brick Children's Hospital to be erected by the Dept. of Public Charities, New York, foot East 26th St., at the corner of Albany and Clarkson Aves., Brooklyn. Bids will probably be received about Jan. 25. The estimated cost is $150,000.

NEW YORK, N. Y.—Bids will soon be called for the general construction of a 1-story hospital, 102 × 33 ft., to be erected at the northeast corner of Kingston Ave. and Winthrop St., Brooklyn. Percy Griffin, 30 Church St., New York, is the arch. The estimated cost is about $75,000.

NEW YORK, N. Y.—Plans have been completed for the erection of a five-story brick store and dance hall building at 145 Suffolk St., occupying a plot 40 × 70.8 ft. R. Rabel is the owner.

Plans have been prepared for a four-story brick office building on the southeast corner of Suffolk St. on a plot 37.6 × 52.1 ft. The cost is $40,000. A. Mandel is the owner.

Plans also have been prepared for the construction of a ten-story brick store and loft building on a plot 52 × 90.1 ft., at 173 and 175 East Broadway. The Forward Association is the owner. The cost is $200,000.

The Merritt-Fergueson Construction Co. has filed plans for the erection of a six-story apartment house in the north side of Cathedral Parkway, 175 west of Lenox Ave. The estimated cost is $150,000. The building will have a frontage of 149.10 ft. and a depth of 57.11 ft., with a facade of brick, granite and terra cotta. It will be equipped with an elevator.

Plans have been filed for the erection of an apartment house on Seventh Ave. and 54th St. on a plot 100.5 × 89.10 ft. The building will cost about $700,000. It will be twelve stories high with a facade of brick and limestone. Neville & Bagge are the Archs.

NEW YORK, N. Y.—Plans have been practically completed for the construction of a theatre in the Bronx. It will be erected on a plot 200 × 100 ft., on Boston Road, near 169th St., near McKinley Square. W. A. Weissager is the owner. The estimated cost is $200,000.

A twelve-story building will be erected by Daniel Richman and Lavitch Bros. on a plot 62 × 98.9 ft., purchased from the Union Mortgage Co. The proposed building will be at 20 to 26 West 36th St.

JERSEY CITY, N. J.—The contract for the construction of the Technical and Industrial High School to be erected in Jersey City has been awarded to W. H. & F. W. CANE, at $423,000.

NEWARK, N. J.—The Public Service Ry. Co. has asked for bids for the erection of a building at Springfield Ave., near 43d St., in the Hilton section of South Orange township, to contain a car house, offices and shops and clubroom for the employees. The estimated cost is $150,000.

JERSEY CITY, N. J.—The contract has been awarded to the BUTLER BROS. CONSTRUCTION CO., 1770 Broadway, New York, for the erection of an open pier for the Central R. R. Co. of New Jersey, at Communipaw. The estimated cost is about $40,000.

ELIZABETH, N. J.—Plans have been completed by George E. Poole, Trenton State Arch., for the projected armory, 105.8 × 199 ft., to be erected at Magnolia Ave. and Walnut St., for the Second Battalion Second Regiment, N. G. N. J. The estimated cost is about $150,000.

PHOENIXVILLE, PA.—The Board of Education plans to construct a high school building, 126 × 78 ft. The contract for the heating system has been awarded to the Colum-

bus Heating & Ventilating Co., Columbus, Ohio. It will contain 23 rooms and will cost about $70,000. Noted on Dec. 22.

PHILADELPHIA, PA.—Bids are asked until Jan. 17 for the construction of the garage to be built at 2314-2338 Market St., for Frederick Douredor, 103 Walnut St., this city. The garage has been leased for a long term of years to the Locomobile Co. of America, 245 North Broad St., this city. It will be of reinforced concrete and brick, four stories and basement, 78 x 106 ft., and fireproof throughout. The architects and engineers, Ballinger & Perrott, 1211 Arch St., this city, desire bids on the general and all sub-contracts until the above date. The structure will be started as soon as the contracts are awarded, as it is intended to have it completed and ready for occupancy early in the coming summer. The garage will have a small power plant to operate the machine and repair shops, elevators and power for the same, etc.

PITTSBURG, PA.—The Pittsburg & Lake Erie R. R. Co. will erect in the near future a large warehouse on the south side, near the Smithfield bridge. W. D. Pardee, New York, N. Y., is Secy.

PITTSBURG, PA.—The Western Theological Seminary will erect a 4½-story dormitory building at Ridge Ave. and Rope Alley. The estimated cost is $120,000.

READING, PA.—The Grand Jury has recommended that an insane asylum for the county be erected on the almshouse farm at Shillington. The estimated cost is $200,000. County Controller Rhoades is interested in the proposed asylum.

AKRON, PA.—Phayer & Phayer, Newcastle, Pa., have been selected architects for the proposed new tuberculosis hospital which will be erected on the Bixler Farm in Springfield township. The estimated cost of the building is $90,000.

PITTSBURG, PA.—The contract has been awarded to HENRY SHENK CO., Lewis Bldg., Pittsburg, for the changes to be made to the Hotel Schenley. Extensive improvements will be made at a cost of about $400,000.

WAYNESBORO, PA.—A. R. WARNER, Waynesboro, has been awarded the contract for the construction of the proposed high school to be erected in Waynesboro.

BALTIMORE, MD.—Callis & Callis, Archs., are preparing plans for the remodeling and improving of the building at 413 West Fayette St. for Robert Kinnear. The building will be four stories high.

BALTIMORE, MD.—Plans are being prepared by Thomas C. Jones, Arch., for the construction of a school, Pimlico Road. It will be two stories high, of brick and stone construction, steam heating and electric lights will be installed. The estimated cost is $40,000.

Bids will be received by Frank W. Keating, M. D., Supt. Mary Asylum and Training School for Feeble Minded, until noon, Feb. 1, for the erection of one dining-room and dormitory building, one single dormitory and day room building, one double dormitory and day room building, and one manual training and assembly building. Plans and specifications have been prepared by Ellicott & Emmart, Archs.

BALTIMORE, MD.—John T. Donohue, 1808 Thames St., has finished plans for 126 2-story brick dwellings to be erected on Eastern Ave., East and Foster Aves., and Curley and Patuxent Sts. Houses to be of pressed brick construction with marble trimmings and tile baths and latest plumbing and fixtures. Improvements to cost about $200,000.

ELKRIDGE, MD.—Grace P. E. Church, plans by F. E. Beall, Arch., 313 St. Paul St., are ready and contract will be awarded this month. One-story granite, 80 × 62 ft., Sunday School room in basement.

BALTIMORE, MD.—Walter L. Westphal has purchased the block in West Baltimore, bounded by Franklin, Payson, Pulaski and Smallwood Sts., and will improve it with 80 2-story brick houses to cost about $110,000. Plans for the houses now being made.

BALTIMORE, MD.—Baltimore Fidelity Warehouse Co., York and Johnson Sts., has finished plans for warehouse at York and William Sts., six stories, reinforced concrete, slate roof, equipment to include electric elevators and machinery for handling heavy freight; estimated cost, $50,000.

BALTIMORE, MD.—See item under Miscellaneous Contracts, Piers, Dredging, Etc.

FORT RENO, D. C.—Bids will be received by the Commissioners of Washington, D. C., until 2 p. m., Jan. 18, for constructing garage and lodge at Fort Reno, D. C. Specifications and all necessary information may be obtained from the City Clk., Engr. Dept., Room 427, District Bldg. Cuno H. Rudolph, John A. Johnston, William V. Judson are Commissioners.

RICHMOND, VA.—The Main Street Bank awarded contract to JOHN T. NUCKOLS, Richmond, to erect bank and office building, nine stories, fireproof, building materials to be concrete, steel rails, brick, fireproof tiling.

*MILLEDGEVILLE, GA.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 8, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Milledgeville.

MONTGOMERY, ALA.—Plans have been prepared for the construction of a Pythian temple to be erected here. Construction work will soon commence. The estimated cost is about $50,000. J. B. Ellis, Selma is interested

RUSTON, LA.—A bond issue proposition, submitted to the citizens for the erection of a modern school building, has been carried. The proposed building will cost about $65,000.

KNOXVILLE, TENN.—The Miller Store Co. will erect at 429 Gay St. a six-story department store building. It will have a frontage of 250 ft. on Gay St. R. F. Fraf & Sons are the Archs. The estimated cost is about $100,000.

CANTON, OHIO.—Plans prepared by A. L. Thayer, Arch., Newcastle, Pa., have been adopted for a group of buildings for the anti-tuberculosis hospital of Star, Columbiana, Sumit and Portage Counties. The estimated cost is $100,000.

COLUMBUS, OHIO.—A large North Side theater or auditorium with a seating capacity of 8,000 persons will be erected by Thomas Swift, 750 Franklin Ave., Columbus, Ohio.

COSHOCTON, OHIO.—The Ohio State University will erect a new library at the institution. D. W. McGRATH has been awarded the contract, exclusive of wiring, heating and ventilating, at $200,758. F. F. Pomerene is Pres. of the Board of Trustees.

OXFORD, OHIO.—The Board of Trustees of Miami University Jan. 4 opened bids for the construction of the woman's dormitory, for which Frank L. Packard, of Columbus, is architect. The contract was awarded to GEORGE ABERNETHY, of Columbus, at his bid of approximately $75,000.

TOLEDO, OHIO.—D. L. Stine, Board of Education Bldg., Toledo, Ohio, has awarded, for the Bd. of Education, George McKisson, Business Dir., the general contract for the Scott High School, to H. J. SPIEKER CO., 409 Michigan Ave. Cost, $350,000. Same architect has awarded general contract to H. J. SPIEKER CO., 409 Michigan Ave., for the construction of Waite High School. Cost, $350,000.

LONDON, OHIO.—The Board of Education has awarded the contract for preparing plans and specifications for the High School building to W. T. Mills, Arch., Columbus. The proposed building will cost in the neighborhood of $80,000.

COLUMBUS, OHIO.—Plans have been submitted to the Builders' Exchange for remodeling the Beall-Livingston Building into an arcade. William Joyce, lessee, is interested. The estimated cost is $50,000.

CLEVELAND, OHIO.—The Commercial Building Co. has completed plans for the erection of a 6-story fireproof building to be constructed on Euclid Ave., east of Ninth St. The estimated cost is about $125,000. Construction work will soon commence.

BRAZIL, IND.—A contract has been awarded for the construction of the new Parco Apartment house on North Franklin St. to SMITH & APPEL, local contractors.

EVANSVILLE, IND.—Bids will soon be asked by the Intermediate Life Insurance Co. for the complete remodeling of the Eichel building on Main and Third Sts. An additional story will be constructed, a new electric elevator installed and the interior finished in marble.

TERRE HAUTE, IND.—Crawford Fairbanks, a wealthy brewer, has ordered plans for the construction of a large, modern and costly dwelling on Wabash Ave., near Eighth St.

TERRE HAUTE, IND.—J. M. RYAN, of Montezuma, Ind., has been awarded a contract for the construction of a new high school building at $93,345. There were four other bidders. Because of a dual school board the matter will likely be taken to court for adjudication.

BLOOMINGTON, IND.—W. L. Bryan and Charles Booth are preparing to ask for bids for the erection of a modern 2-story flat with six complete flats of six rooms each. The estimated cost is $25,000.

MARION, IND.—Robert J. Spencer, capitalist, is asking for bids for the erection of an up-to-date apartment house on corner of Third and Gallatin St. The plans call for an apartment building of 14 separate flats. Work to begin as soon as weather permits.

HILLSDALE, MICH.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 3, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States post-office at Hillsdale, Mich., according to drawings and specifications, copies of which may be obtained from the Custodian of site at Hillsdale, Mich., or at the discretion of the Supervising Architect.

DETROIT, MICH.—Plans have been started by Reed & Stem, Archs., New York City and St. Paul, Minn., for the construction of the new Union depot to be built here by the Michigan Central R. R. It will be of modern construction, fireproof, and bids will be received by G. H. Webb, Ch. Engr., early in March. Cost, $3,000,000.

MT. CLEMENS, MICH.—T. Van Damme, 14 North Front St., has awarded the general contract for the new $100,000 bath house for the Arethusa Co., William Leahner, Mgr. Building to be constructed of brick and stone, to be three stories and basement, 74 x 160 ft. General contract to the HUBART & SCHOTT CO., Mt. Clemens.

DETROIT, MICH.—D. H. Burnham & Co., 9 Jackson Blvd., Chicago, Ill., will take new bids soon on general contract for the new 20-story bank building for the Dime Savings Bank, Fort and Griswold Sts., Detroit. William Livingston is Pres. The cost is about $2,100,000.

STRATTON & BALDWIN, 1103 Union Trust Bldg., are working on preliminary plans for the new $1,000,000 hospital for the General Hospital Association, Dr. H. N. Torrey, Secy., 636 Woodward Ave. Contracts will be awarded early in spring.

CHICAGO, ILL.—A 19-story store and office building, to be known as the North American, will be erected by Stumer, Rosenthal & Ekstein, 51 Jackson Bldg., at the northwest corner of State and Monroe Sts. It will have a frontage of 96 ft. on State St. and 120 ft. on Monroe St. The estimated cost is about $1,500,000.

GRANITE CITY, ILL.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, has awarded contract for the construction of a post office at Granite City, Ill., to CONNERS BROS. CO., Lowell, Mass., at $61,400.

WATERTOWN, WIS.—Bids will be received until 3 p. m., Feb. 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., and then opened for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Watertown, Wis., according to drawings and specifications, copies of which may be obtained from the custodian of the site at Watertown, Wis., or at the discretion of the Supervising Architect.

MILWAUKEE, WIS.—A. Hood, Arch., is preparing plans for a new 12-apartment building to be erected at Stowell Ave. and Park Pl. The estimated cost is $65,000.

ST. PAUL, MINN.—Bids are being received by J. F. Denson, Arch., 706 Germania Life Bldg., for the construction of a 9-story pressed brick and cut stone, reinforced concrete, fireproof wholesale building for Finch, Van Slyck & McConville, to be built at Fifth and Wacouta Sts. The contract for the foundation and the excavation has been awarded to F. J. ROMER CONSTRUCTION CO., St. Paul. The cost is about $600,000.

HOLDREDGE, NEB.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 2, for the construction (including plumbing, gas piping, heating apparatus, and electric conduits and wiring) of the U. S. post-office at Holdredge, Neb., in accordance with the drawings and specifications, copies of which may be had from the custodian of the site at Holdredge, Neb., or at the discretion of the Supervising Architect.

LEXINGTON, MO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Lexington, Mo., to A. ANDERSON & SON, St. Louis, Mo., at $39,773.

TEMPLE, TEX.—Plans have been prepared by Arch. Roy E. Lane, Dallas, for the construction of a $40,000 hotel in Temple. E. NELSON is the contractor, and work will start at once. The building will be on Ave. B and Third St., near the new Santat Fe Station. The cost is $40,000.

WAXACHIE, TEX.—The erection of a new hall for the girls at Trinity College is contemplated. The estimated cost is about $50,000.

WACO, TEX.—The erection of a building at the corner of Eighth and Washington Sts. has been decided upon by the Masons of this place. The estimated cost is about $40,000.

RENO, NEV.—The Board of School Trustees of Reno invites architects to submit plans and specifications until Jan. 23 for a high school building to be erected in Reno. Prizes of $200, $150 and $100 are offered for the best plans. Plans are requested for both a 1-story and a 2-story building. The cost of the building is placed at $125,000. Architects are required to submit a careful estimate of the cost. Three and one-half per cent. of the cost will be paid the successful architect, and if he is the supervising architect, the amount will be five per cent.

PHOENIX, ARIZ.—The Gallagher Construction Co., San Francisco, Cal., and San Diego, Cal., will construct the new Hotel Adams here, recently burned, by day work. Mr. George Gallagher will be Supt. of Construction, and George Harding, of Los Angeles, Cal., will be Superv. Engr. The contract for the steel has been awarded to the COLORADO FUEL & IRON CO., Central Bldg., Los Angeles, Cal. The hotel will be 137 × 150 ft., five stories high, reinforced concrete construction. Harrison Albright, Arch., Los Angeles and San Diego, Cal. There will be 80 bathrooms, steam heat, etc.

TACOMA, WASH.—Henry Mohr, Pres. of the Henry Mohr Hardware Co., is planning to erect a 5-story business structure at 1140-1152 South C St.

HOQUIAM, WASH.—A theater will probably be erected on a plot purchased from the Northwestern Lumber Co. by John Court, representative of a theatrical syndicate. The proposed building will cost about $50,000.

SEATTLE, WASH.—A hotel and store building, costing about $80,000, will be erected at 665-667 King St. by G. D. Young.

ABERDEEN, WASH.—Plans will be prepared by Watson Vernon, Arch., Aberdeen, for the proposed high school to be erected in Ontralia. The estimated cost is about $75,000.

ONTARIO, ORE.—The construction of a high school building is under consideration. A special election was held Jan. 7 for the purpose of issuing bonds to the amount of $47,000.

PORTLAND, ORE.—Doyle & Patterson, Archs., Worcester Bldg., have completed general plans for a 12-story frame and concrete flooring and partitioned department store building, which is to be erected for the Lipman, Wolfe & Co. The steel frame, 2,000 tons, has been awarded to the NORTHWEST STEEL CO., Portland, Ore. It will cost approximately $500,000. Noted Dec. 22.

SANTA CRUZ, CAL.—James Knox Taylor, Superv. Arch, Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Santa Cruz, Cal., to GRANT FEE, Monadnock Bldg., San Francisco, at $83,600.

LOS ANGELES, CAL.—Jewish people here are planning to reconstruct the Jewish Orphan Asylum which was destroyed by fire. About $75,000 will be available for buildings. Committee having construction of asylum in charge are about to ask for plans and specifications for buildings.

SAN FRANCISCO, CAL.—The St. Luke's Hospital, Valencia, will be [illegible] and a group of modern structures, [illegible] all the latest sanitary devices, will be [illegible] in stead; $1,000,000 has been [illegible] the hospital by Mrs. Louis Montag[illegible]

J. C. Carter, Arch., has pr[illegible] plans for a Class C apartment bu[illegible] to be erected on Geary St., to cost [illegible] $50,000.

W. A. Kennedy is having p[illegible] prepared for a $40,000 apartment house [illegible] build at Jones St. and Lewis Pl. W[illegible] is the Arch.

PLACERVILLE, CAL.—The [illegible]visors here have selected a site for the court-house here, and an architect [illegible] be named. The estimated cost [illegible] building is about $125,000.

LOS ANGELES, CAL.—G. [illegible]garth will erect at 838 St. Andrews [illegible] Swiss chalat type of residence of [illegible] construction. Plans have been prep[illegible] by the Arch. Designing Co., Grosse Bldg.

LOS ANGELES, CAL.—A 25-[illegible] building will be erected by the Los [illegible] Investment Co. on the northeast [illegible] of Eighth and Broadway. The bu[illegible] will be approximately 320 ft. high, and will cost about $2,000,000.

LOS ANGELES, CAL.—The C[illegible] Kubach Co., Pacific Electric Bldg., has been awarded the contract for the excavation and construction of the reinforced-concrete foundation for the new Chester Bldg. at [illegible] and Spring Sts., at $26,900. Parkinson & Bergstrom, Security Bldg., are the Ar[illegible]

CORONADO BEACH, CAL.—The GALLAGHER CONSTRUCTION CO., San Francisco and San Diego, have secured the contract for erecting the 2-story concrete bank and office building here for the Bank of Commerce & Trust Co., 66 × 140 ft. MacDonald & Applegarth, San Francisco, and 417 Union Bldg., San Diego, are the Archs. Tile, marble and hard wood finish will be used.

VENTURA, CAL.—Albert C. Martin, Higgins Bldg., Los Angeles, Arch., has been commissioned by the County Board of Supervisors of Ventura County to prepare plans for the proposed county court-house to be erected in Ventura city. The new building will be erected upon a site 400 × 400 ft. and will be three stories high. The floor space will be 12,000 to 14,000 sq. ft. in area. The construction will probably be reinforced concrete skeleton, with granite and sandstone or terra cotta facing. The cost will be from $200,000 to $250,000.

QUEBEC CITY, QUE.—Bids will be received until Jan. 23 by R. C. Desrochers, Secy. Dept. Pub. Works, Ottawa, for restoration and addition to the Custom House here.

FERGUS, ONT.—Bids will be received by the Public Works Dept., R. C. Desrochers, Secy., Ottawa, until Jan. 18, for post-office fittings at Fergus. Plans from Wm. Mahony, Guelph, Arch.

ELORA, ONT.—Bids will be received until Jan. 18 by the Public Works Dept., R. C. Desrochers, Secy., for post-office fittings at Elora. Plans from Wm. Mahony, Guelph, Arch.

WALKERVILLE, ONT.—Burrowes & Wells, 58 Lafayette Ave., Detroit, have awarded the following contracts for a new 2-story building, 45 × 50 ft., for R. N. Walker & Son, of Walkerville. Building has been leased by the Dominion Government and will be used for a custom house. Masonry let to CORRICK BROS., 375 Fisher Ave., Detroit; carpentry to A. MAPES, Windsor, Ont.; composition roofing, steam heating and plumbing to P. BLACKBURN, Windsor, Ont.; painting to H. B. WHITE, Windsor, Ont.

NEW WESTMINSTER, B. C.—The contract for the construction of the new Kelly-Douglas wholesale grocery block has been awarded to SNIDER & BRETHOUR, at $40,000.

VANCOUVER, B. C.—The City Council has voted $240,000 for extensions to the Vancouver General Hospital. W. McQueen is City Clk.

VANCOUVER, B. C.—The contract for the construction of the proposed civic isolation hospital were awarded to WILLIAM O'DELL, according to plans prepared by Dalton & Eversleigh, Archs., at $49,986.

BALFOUR, B. C.—C. W. SHARPE, Winnipeg, Man., has the contract for the erection of a summer hotel here for the Canadian Pacific R. R. It will be three stories high, 205 × 105 ft., with stone and concrete foundation. Hayter Reid, Montreal, Que., is Mgr. of the company's hotel system.

SASKATOON, SASK.—The CARTER-HALLS-ALDINGER CO., Winnipeg and Chicago, Ill., has been awarded the contract for the King George Hotel to be erected here for the Saskatoon Investment & Trust Co., at $246,000.

SASKATOON, SASK.—The Saskatoon Investment & Trust Co. has awarded the contract for the construction of the King George Hotel to the CARTER-HALLS-ALDINGER CO., Winnipeg and Chicago, at $246,000.

CUBA.—Havana.—Passenger Station, Etc.—The contract has been awarded to the SNARE & TRIEST CO., 143 Liberty St., New York, by the United Railways of Havana, for the development of the Arsenal property, recently acquired from the Cuban Government, and now to be used as a combined passenger and freight terminal. The work involved in this contract is the construction of a modern passenger station and train shed with elevated railroad connection, under the designs of Kenneth M. Murchison, Arch., the building of freight warehouses, piers on the Bay of Havana, on which the arsenal has a frontage of 1,500 ft., the building of three steel and concrete piers on the property of the Government and for the use of the same, and a crematory of 500 tons per day capacity to dispose of the city garbage. Work will begin at once and occupy two years to complete. Total amount of contract, $4,000,000.

WATER SUPPLY—IRRIGATION.

*(*Denotes that this work is advertised in Engineering News.)*

WOBURN, MASS.—The Mayor has recommended that the water system be improved at a cost of $200,000 in four annual installments. William B. Jones is City Engr.

LAWRENCE, MASS.—Bids will be received by the Water Board until Jan. 16 for ten tons of pig lead and 25 reels of lead pipe. Michael E. Collins is Supt.

WEST BROOKFIELD, MASS.—The town is considering the construction of a water system. Estimated cost, $30,000.

BOSTON, MASS.—A petition has been presented to the Legislature for permission to install a special high-pressure fresh-water fire system to be supplied from the new Charles River Basin. A pumping station, with pumps of a capacity of 15,000 gallons per min., would be built at the basin, and twelve miles of pipe, ranging in size from 12 to 24 in., would be laid. The purpose of the system is to protect the dry goods area of the city, and, in fact, the area north of Boylston St., east of the Common and south of Richmond St. The old salt-water system would become a part of this, the old fireboat connection being abandoned. L. R. Rourke is Acting City Engr.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Jan. 18, for furnishing and delivering portable engine-driven air compressors and centrifugal pumping units.

TROY, N. Y.—The Board of Contract and Supply on Dec. 30 opened bids for the pipe for an 8-in. water main in Seventh Ave., north, 850 ft. from 24th St., and for a 6-in. water main in Spring Ave., east 4,300 ft. from Linden Ave. The U. S. Cast Iron Pipe & Foundry Co. bid $21.70 per ton and Charles Miller & Son $21 per ton.

YONKERS, N. Y.—The Board of Contract and Supply, will receive bids until 3.30 p. m., Jan. 16, for furnishing and delivering on the public dock, at Yonkers, before March 15, 1911, 245 lengths of 12-in. pipe, weighing 1,100 lbs. per length, all pipes in material, dimensions, manufacture, coating, etc., to be in all respects according to the specifications for c.-i. pipe adopted by the American Water Works Association in 1908.

BRIDGETON, N. J.—The city is considering the construction of a filtration plant with a capacity of from 3,000,000 to 5,000,000 gallons per day.

LYNDHURST (Rutherford post-office), N. J.—The citizens on Dec. 27 voted to issue $25,000 of bonds for extending the water system. John F. Woods is Township Clk.

HILLSBORO (r. f. d. from Millstone), N. J.—The city is considering the construction of a water-works system and an electric light plant.

LANCASTER, PA.—Bids will be received by the Water Committee, J. A. Leinbach, Clk., until Jan. 17, for furnishing an electrically-driven centrifugal pump with a capacity of 10,000,000 gallons per 24 hours.

YORK, PA.—The York Water Co. is considering the construction of a storage reservoir of 1,000,000,000 gallons capacity for emergency purposes.

PITTSBURG, PA.—Bids will be received until 10 a. m., Jan. 17, by the city at the office of the City Controller, for the construction and erection of a 1,000,000-gallon pumping engine and appurtenances in Lincoln pumping station. Joseph G. Armstrong is Dir. Pub. Wks.

WASHINGTON, D. C.—President William H. Taft submitted to Congress, on Jan. 5, the report of the Special Board of Army Engineers appointed to examine the various reclamation projects upon which work had been started by the government, and to recommend which of them should be given a share in the $20,000,000 of certificates. The board has recommended, and the President has approved, the allottment of the money among the following projects: Salt River, Ariz., $495,000; Yuma, Ariz., and California, $1,200,000; Grand Valley, Colo., $1,000,000; Uncompahgre, Colo., $1,500,000; Fayette-Boise, Idaho, $2,000,000; Milk River, Mont., $1,000,000; North Platte, Wyo., and Nebraska, $2,000,000; Truckee-Carson, Nev., $1,193,000; Rio Grande, New Mex., Texas and Mexico, $4,500,000; Umatilla, Ore., $325,000; Klamath, Oregon and California, $600,000; Sunnyside, Wash., $1,250,000; and Tieton, Wash., $665,000. The board also made a tentative allotment among various projects of the general reclamation fund for the years 1911 to 1914, inclusive. This is to supplement the $20,000,000 loan, and to carry on projects which do not participate in the distribution of the loan. The projects to share in this money are as follows: Yuma, Ariz., $2,380,462; Grand Valley, Colo., $500,000; Uncompahgre, Colo., $2,045,000; Minidoka, Idaho, $528,000; Fayette-Boise, Idaho, $4,585,435; Huntley, Mont., $110,000; Milk River, Mont., $2,950,000; Sun River, Mont., $3,278,000; Lower Yellowstone, N. Dak., $578,000; North Platte, Wyo., $2,185,000; Truckee-Carson, Nev., $1,594,000; Rio Grande, N. Mex., $1,855,000; Missouri Pumping, $270,000; Belle Fourche, $480,000; Skanogan, $13,000; and Shoshone, Wyo., $2,000,000. Of these, the amounts allotted to the Grand Valley, Lower Yellowstone and Missouri Pumping are conditional. The total amount of this fund will be $25,351,897. No allotments, either from the loan or from the general reclamation fund, were recommended for the following propects, except for necessary maintenance and operation: Orland, Cal.; Garden City, Kan.; Kittias, Wapato and Benton, Yakima Project, Wash.; Carlsbad, N. Mex., and Mondo, N. Mex.

FAIRBURN, GA.—The city will vote on Jan. 14 on the issuance of $20,000 of water-works bonds.

GRAND VIEW, OHIO.—The citizens have voted to issue bonds for the installation of a system of water works. Estimated cost between $50,000 and $60,000.

HOLLAND, MICH.—The Board of Public Works has instructed the Superintendent of Water-Works to draw up plans and specifications for a new pumping station. The Board has secured a site on Maple St., between 20th and 21st Sts., for the location of the station. Noted on Jan. 5.

FLINT, MICH.—We are officially advised that plans and specifications for a new pumping station and power and filter plants here are progressing. About 32 miles of mains will be laid also. W. G. Clark, Toledo, Ohio, is Engr. Noted on Jan. 5.

MILWAUKEE, WIS.—Extensions of high-service and feeder main water pipes will be made by the city: The Board of Estimates has approved the plans of C. J. Poetsch, City Engr., and the necessary money is to be provided in the budget. The Wright and 29th Sts. high-service pipe of 30-in. diameter, now terminating at 29th St. and Highland Boulevard, is to be extended south to National Ave. and the Arnauld Road, outside the city limits, a distance of nearly two miles. Estimated cost, $100,000. The east side-south side feeder main, ending at Eleventh Ave. and Scott St., is to be extended from Greenbush and Lapham Sts. to Lincoln Ave. and west to the Layton Boulevard. Estimated cost, $66,000.

MARSHALLTOWN, IOWA.—Prof. B. J. Lambert, of the State University of Iowa, has been engaged by the City Council of this city to prepare specifications for a water power plant, for the purpose of harnessing the Iowa River at the dam here and providing pumping power for the municipal water-works. Estimated cost, $10,670.

STATE CENTER, IOWA.—Bids will be received until noon, Jan. 31, by J. W. Sparks, City Engr., for drilling a well here.

NORTH MANKATO, MINN.—We are officially advised that the Council has voted against the proposed water-works system for the city. Noted on Dec. 22.

ENGLEWOOD, KAN.—We are officially advised that the city has sold its water-works bonds. Plans for the system have been prepared. The J. S. Worley Co., Reliance Bldg., Kansas City, Mo., is in charge of the engineering work.

MOUND CITY, KAN.—We are officially advised that the J. S. WORLEY CO., Reliance Bldg., Kansas City, Mo., has been awarded the contract for the water-works system to be installed here.

WHITE CITY, KAN.—See item under Light and Power Plants.

LINCOLN, NEB.—The contract for furnishing water pipe has been awarded to the AMERICAN CAST IRON PIPE CO., Birmingham, Ala., as follows: 205 tons of 16 and 12-in. pipe, $23.55 per ton; 150 tons 6-in., $23.60, and 75 tons of 4-in., $24.95; five tons specials, 2¼ cts. per lb. Bids were opened on Dec. 15.

FORT CROOK, NEB.—The J. W. TURNER IMPROVEMENT CO., Des Moines, Iowa, has been awarded the contract for the construction of a reservoir, and well here at $18,500. Bids were opened on Dec. 16 by C. E. Babcock, Constr. I. M., U. S. A., Fort Crook. Noted on Dec. 29.

MANDAN, N. DAK.—We are officially advised that plans and specifications are being completed for water-works improvements here, including new pumping station at the Missouri River, with settling basins. Approximate cost, $65,000.

GREYBULL, WYO.—The Town Council, has awarded the contract for the construction of the new water-works system to the GARRARD CONSTRUCTION CO., Sheridan, Wyo., at $31,960.

UPTON, WYO.—See item under Light and Power Plant.

TROY, MONT.—The County Commissioners, it is reported, have granted a franchise to R. E. Porterfield to install water-works and an electric light plant here.

WARRENTON, MO.—Bids were opened on Dec. 28 by the City Clerk for constructing water-works from the plans of Fuller-Coult Co., Chemical Bldg., St. Louis, Mo. The contract has been awarded to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa., at $6,220, including furnishing and laying pipe, castings, hydrants, valves, a 40,000-gallon steel tank and 82-ft. steel tower. Other bidders were: Cook Construction Co., Des Moines, $6,986; International Construction Co., St. Louis, $8,670; Shultz & Bates, St. Charles, Mo., $3,950, without tower and tank; Heirch & Miccotto, St. Louis, Mo., $3,827, without tower and tank.

KANSAS CITY, MO.—The Board of Fire and Water Commissioners has decided to extend the water main in Southwest Boulevard to supply Bullem Ave.

PLATTSBURG, MO.—The city is having preliminary plans prepared by Rollins & Westover, Beals Bldg., Kansas City, Mo., for the construction of water-works and an electric light plant. Estimated cost, $50,000.

MOBERLY, MO.—The city is considering extending the water-works. L. G. Knapp & Co., Kansas City, Mo., is Engr.-in-Charge.

HOUSTON, TEX.—The city is considering the construction of a reservoir with a capacity of 40,000,000 gallons.

TAYLOR, TEX.—Andrew Zilker, Austin, Tex., it is reported, has purchased the plant of the Water Co. here. Improvements will be made to the plant.

OKLAHOMA CITY, OKLA.—The city will vote on February 14 on the issuance of $1,500,000 of bonds for the construction of new water-works to increase the water supply. Alexander Potter, 116 Liberty St., New York, is Engr.

HOMINY, OKLA.—The city has voted $36,000 of water and sewer bonds.

DELAWARE, OKLA.—The city has voted $25,000 of bonds for the construction of a water-works system.

*FOWLER, COLO.—Bids will be received at the office of the Board of Directors of the Omer Irrigation District, Fowler, Otero County, until 10 a. m., Jan. 6, for the construction of a dam for Omer Reservoir No. 1, a diversion dam, headworks and sluice gates for the Omer Canal, and for the removal of about 100,000 cu. yds. of earthwork in the extension and enlargement of the canal, and for furnishing cement, valves, steel and other material necessary for the construction of the works. Plans, specifications and other particulars may be obtained at the office of the District at Fowler, or at the office of the Field, Fellows & Hinderlider Engineering Co., 435 Century Bldg., Denver, Colo. E. H. Hall is Secy.

CARSON CITY, NEV.—The Reclamation Service was authorized by the Secretary of the Interior, on Jan. 4, to begin the preliminary work for the construction of the Carson River dam, in connection with the Truckee-Carson Irrigation project, Nevada, acting upon the recommendations made by the Board of Army Engineers. The sum of $1,250,000 has been allotted to this project. D. W. Cole is Propect Engr., Fallon, Nev.

SPOKANE, WASH.—We are officially advised that bids were received as follows, on Jan. 3, by the city for the construction, complete, of the Lincoln Heights reservoir: Boynton, Church & McCoy, 1618 Eleventh Ave., Spokane, $163,000; Eslick & Hartnet, 2228 Sharp Ave., Spokane, $161,500. The work includes 62,225 cu. yds. of earth excavation, 15,625 cu. yds. of concrete walls, and 16,200 sq. yds. of concrete floor. Morton Macartney is City Engr.

SPOKANE, WASH.—The contract has been awarded by the city to the LISTER CONSTRUCTION CO., 516 Berlin Bldg., Spokane, for laying water mains in Improvement No. 465, at $27,290.

SPOKANE, WASH.—The City Council on Dec. 27 authorized the construction of the pumping plant at the Lincoln Heights reservoir to replace the pumping plant now on Grand Boulevard and 14th Ave. This plant will serve the high-pressure system, pumping to the 29th Ave. and Altamont standpipes.

Bids will be received until Jan. 20 by John Gifford, City Purchasing Agt., for the following, f. o. b. cars Spokane: Two 14-in. single-suction horizontal-shaft 2-stage centrifugular pumps, with necessary priming fixtures; a 900-HP. 2,200-volt 60-cycle 3-phase induction motor; c.-i. base plate; two 450-HP. flexible couplings; a switchboard panel, 65 × 24½ ins., ⅜-in. bevel, mounted 25 ins. from the floor, with all the necessary wirings and apparatus. Separate bids will be received for 1,950 lin. ft. of 18-in. and 9,600 lin. ft. of 16-in. water pipe. Morton Macartney is City Engr.

VALLEJO, CAL.—Bids will be received by the Board of Public Works until 7.30 p. m., Jan. 23, for furnishing 1,120 pieces of c.-i. bell and spigot water pipe 14 ins. internal diameter, 12 ft. long, 66 ins. thick, and 340 pieces c.-i. bell and spigot water pipe 8-in. internal diameter, 12 ft. long, 51 ins. thick with necessary fittings for the Water Department. W. J. Torney is Clerk.

LOS ANGELES, CAL.—The Board of Supervisors will receive bids until 2 p. m., Jan. 30, for a certain franchise granting right to lay and for a period of 40 years to maintain a system of water pipes in the townsite of Lankershim. C. G. Keyes is County Clk.

SAN FRANCISCO, CAL.—The Supervisors have adopted a resolution authorizing the sale of $1,125,000 of water supply bonds out of the $45,000,000 authorized to be issued to cover the entire cost of the city's Sierra water project. Bids for these bonds are to be submitted and opened on Jan. 30. Six months later an equal amount will be offered for sale and a year later another block.

RIVERSIDE, CAL.—The Riverside Artesia Water Co. has issued bonds for $200,000 for putting in new and larger service pipes and improving its system.

SAN JACINTO, CAL.—The Ramona Power & Irrigation Co., San Jacinto, is preparing to begin work on its project in the San Jacinto Mountains. The final surveys will be made and the work pushed to completion. The operation of the Ramona Co. will be for the purpose of developing an increased supply of water for the valley lands and developing power from mountain streams.

GUELPH, ONT.—The ratepayers of Harrison Township have voted in favor of spending $35,000 for the construction of a water-works system.

PENTICTON, B. C.—Bylaws providing for $130,000 for a domestic water service and $71,000 for an electric light plant were carried on Dec. 28.

CHILLIWACK, B. C.—The Directors of the Elk Creek Water-Works Co., Ltd., New Westminster, B. C., now operating in Chilliwack Valley, have decided, it is reported, to extend the system next summer. It is planned to lay an 8-in. main from Elk Creek to the reservoir on Little Mountain, running through Rosedale and along the Yale Road, supplying water to Rosedale Village for fire and domestic purposes and to the farmers between that point and Chilliwack. Estimated cost, $40,000.

*WINNIPEG, MAN.—Bids will be received, addressed to the Chairman of the Board of Control, by M. Peterson, Secy. Bd., until 11 a.m., Feb. 6, for the manufacture, delivery and erection, complete, of two pumping plants, each of a capacity of 1,000,000 imperial gallons per 24 hrs. Specifications and forms of proposal, together with conditions governing bids, may be obtained at the office of the City Engineer, 223 James Ave.

SEWERS.

NEW YORK, N. Y.—Bids will be received until 11 a. m., Jan. 17, by the Pres. of the Boro. of the Bronx for constructing a sewer and appurtenances in Simpson St., between East 176th St. and a point about 251 ft. southerly therefrom. The Engineer's estimate of the work is as follows: 273 lin. ft. of 12-in. pipe sewer, 26 spurs for house connections, over and above the cost per lin. ft. of sewer, 2 manholes, complete; also for constructing sewers and appurtenances in West 231st St., between Broadway and Kingsbridge Ave.; and in Kingsbridge Ave., between West 230th St. and West 232d St. The Engineer's estimate of the work is as follows: 578 lin. ft. of 15-in. pipe sewer, 1,238 lin. ft. of 12-in. pipe sewer, 210 spurs for house connections, over and above the cost per lin. ft. of sewer, 18 manholes, complete, 6 receiving basins, complete.

SYRACUSE, N. Y.—Bids for the construction of the Harbor Brook intercepting sewer system will be received until 10 a. m., Jan. 26, at the office of the Syracuse Intercepting sidered by the taxpayers of East Aurora. The Sewer Board, 317 City Hall, Syracuse, N. Y. Plans and specifications on file at the office of the Board. Harry J. Hamlin is Secy.

POUGHKEEPSIE, N. Y.—The Board of Public Works voted to construct a sewer in North Clinton St., from the top of the hill north to North St. and in North St., from North Clinton St. to North Hamilton St.

NEWBURGH, N. Y.—The Council has awarded to PIETRO LUCIANO, White Plains, N. Y., the contract for sewer in Lake St., at $8,912.

SEA ISLE CITY, N. J.—Plans have been completed and accepted by the City Councils, and bids will be asked for about the end of this month for the construction of a sewer system and sewage disposal plant to be built here during the coming spring by the city. It is estimated that it will cost between $35,000 and $40,000. The plans and specifications were prepared by S. R. Goff, Ocean City, N. J., T. E. Devow is Pres. Councils. The disposal plant will be constructed of concrete.

ELIZABETH, N. J.—Bids will be received until 8:30 p. m., Jan. 16, by the City Council for the construction of a sewer in Trenton Ave., from Franz Josef Ave. to Laurel St. Plans and specifications on file at the office of N. K. Thompson, St. Comr.

ALLENTOWN, PA.—G. H. Hardner, contractor, has started work on the sewer in Chew St., from Fourth St. to Jordan Creek. There will be 400 ft. of 27-in. sewer, 134 ft. of 18-in. sewer; also six inlets, two manholes and 600 ft. of 8-in. underdrain.

SMITHFIELD, VA.—The City will vote on a bond issue to the amount of $35,000 for the installation of a sewer system and electric light plant.

MOUNDSVILLE, W. VA.—The citizens of this place have voted a bond issue of about $170,000 for the construction of a sanitary sewerage system; also surface drainage. There will be about 24 miles of sanitary sewers varying in size from 6 ins. to 36 ins. in diameter. Bids will be received for the construction about March 1. J. M. Williamson is Mayor, and Chas. E. Collins, Philadelphia, Pa., is the Engr.

FAYETTEVILLE, N. C.—The contract has been awarded to the CLARENDON CONSTRUCTION CO., Wilmington, N. C., for the construction of a filtration plant having a capacity of 500,000 gallons a day, at $12,858.

LOUISVILLE, KY.—Bids will be received by the Commissioners of Sewerage, 605 Equitable Bldg., until noon, Jan. 20, for the installation of a sewer known as the Second St. sewer. Plans on file at the office of the Commissioners. H. F. Eddy, 14 Beacon St., Boston, Mass., is Consult. Engr.

CANTON, OHIO.—A sewage disposal plant will be installed in Canton. L. E. Chapin, Const. Engr., has prepared plans.

CLEVELAND, OHIO.—Bids will be received by A. B. Lea, 104 City Hall, until noon, Jan. 19, for the installation of sewers in Chesterfield and Phillips Ave. Plans and specifications may be obtained from the City Engineer, 365 City Hall. I. G. Hoffman is Secy.

CINCINNATI, OHIO.—Bids will be received at the office of the Director of Public Service, City Hall, until noon, Jan. 17, for the construction of main and lateral sewers in Thompson Alley, from Liberty St. north to its northern terminus and in right-of-way west of Thompson Alley south of Milton St. Bids will also be received for the construction of main and lateral sewers and drains, with their appurtenances, in Otte Ave., from Hamilton Ave. to ravine east of Kirby Rd. Plans and specifications may be obtained from the Ch. Engr. of the Dept. of Public Service. John J. Wenner is Clk.

LORAIN, OHIO.—Bids will be received by the Director of Public Service of the City of Lorain until noon, Jan. 27, for labor and material necessary for the construction of a storm-water sewer in the Dallas Ave. storm-water sewer district. Plans and specifications at the office of Director of Public Service. L. B. Johnston is Clk.

SOUTH BEND, IND.—See item under Streets and Roads.

LEBANON, IND.—See item under Streets and Roads.

LEBANON, IND.—Edmund Connor, City Clk., will receive bids until 7.30 p. m., Jan. 23, for the installation of sewers in Baronne St.

SOUTH BEND, IND.—The Board of Public Works has passed a resolution for the construction of a sewer and drain two miles long in the south end and extending through the suburbs. The construction of the drain will be one of the largest in Northern Indiana. The estimated cost exceeds $100,000.

HOUGHTON, MICH.—The contract has been awarded by F. W. Nichols to CHESTER C. DAVIS for the sanitary sewer to be constructed here. A tunnel 520 ft. long will be constructed under the central portion of the addition from Florence St. north to Portage Lake.

ALLEDO, ILL.—Bids will be received by the Board of Local Improvements until 11 a. m., Jan. 19, for the construction of a sewer requiring about 3,200 ft. of 10-in. pipe, 4,120 ft. of 8-in. and 8,460 ft. of 6-in.

pipe, 51 manholes and eight flush tanks. W. S. Shields Co., 1201 Hartford Bldg., Chicago, are the Engrs.

MOMENCE, ILL.—Bids will be received by the Board of Local Improvements until noon, Jan. 14, for the improvement of a drainage sewer district by constructing concrete and vitrified clay pipe sewers. Plans and specifications at the office of City Clerk.

LA CROSSE, WIS.—The City Engineer has completed plans for the new trunk sewer and branches for the southern part of the city. It will be 17¼ miles in length and cost nearly $100,000. It is planned to award the entire work to one contractor. Bids have not yet been taken.

ANTIGO, WIS.—Plans are being prepared for the construction of a sewer and sewage disposal plant. The estimated cost is $50,000.

HAMBURG, IOWA.—Bids will be received until 2 p. m., Jan. 17, by G. M. Moore, Pres. of North Nishnabotna Drainage Dist., for the construction of a flume at a point about 3½ miles southeast of Hamburg. Plans and specifications at the office of Jas. F. Gore, Rockport, Mo.

WELLINGTON, KAN.—The J. S. WORLEY CO., Engineers, 206-7 Reliance Bldg., Kansas City, Mo., have been awarded the contract to prepare plans and specifications for the proposed sewage disposal plant to be constructed at Wellington, Kansas, which will be the largest plant so far to be planned in the state.

BEEVILLE, TEX.—The contract has been awarded to TRUEHEART & JACKSON, San Antonio, Tex., for the installation of a sewer system at $21,000. T. Bartlett, San Antonio, Tex., Civil Engr., prepared the plans.

*CORPUS CHRISTE, TEX.—The City will receive bids for material necessary to construct a sewer until Jan. 27. There will be required 1,100 sq. ft. of steel sheet piling, 85 c.-i. manhole covers, 10 flush tank syphons, 4,000 lin. ft. of c.-i. pipe, 2 carloads of lumber, 2,000 ft. of 15-in. vitrified sewer pipe, 7,000 ft. of 12-in. vitrified sewer pipe, 3,300 ft. of 10-in. vitrified sewer pipe, 9,660 ft. of 8-in. vitrified sewer pipe, 57 "Ys" 6 on 15, 78 "Ys" 6 on 10, 288 "Ys" 6 on 12, 258 "Ys" 6 on 8. Plans and specifications at the office of E. H. Lancashire, Engr., 842 Wilson Bldg., Dallas Tex.

COLLINSVILLE, OKLA.—Bids will be received by the Board of Trustees, Collinsville, Okla., until Jan. 14, for the furnishing of materials and construction of sewers. Plans and specifications at the office of O'Neil Engineering Co., 1503 Praetoria Bldg., Dallas, Tex.

CHANDLER, OKLA.—The contract has been awarded by the Board of County Comrs. for the construction of the Deep Fork drainage ditch to a local company formed for the purpose of taking the contract. The company is composed of H. M. Johnson, P. S. Hoffman, L. E. Rooney and C. L. Conklin. Bonds to the amount of $3,300,000 were voted to build the ditch.

BARTLESVILLE, OKLA.—See item under Streets and Roads.

SPOKANE, WASH.—Bids will be received in triplicate until 2 p. m., Jan. 29, for 7,000 ft. of 10-in. corrugated drain pipe perforated bottoms f. o. b., Spokane, Wash. One copy of bid to be submitted to the Mayor, one to Bd. of Pub. Wks. and one to Purchasing Agent.

LOS ANGELES, CAL.—The REINFORCED CONCRETE PIPE CO., Central Bldg., has been awarded contract for manufacturing and laying 7,200 ft. of 24-in. and 600 ft. of 20-in. reinforced-concrete pipe for the outfall sanitary sewer.

*TORONTO, ONT.—Bids will be received by G. R. Greary, Chmn. Board of Control, City Hall, Toronto, for the construction of the several sections of low level interceptor and other works, as mentioned below, until noon, Feb. 7. The following is an approximate description of the various works: 1. Low level interceptor, Section No. 1, egg shape, 2' 10" × 4' 3", 4,566 lin. ft. 2. Low level interceptor, Section No. 2, egg shape, 3' 2" × 4' 9", 2,475 lin. ft. 3. Low level interceptor, Section No. 3, egg shape, 3' 6" × 5' 3", 2,295 lin. ft., circular, 4' 6" diameter, 1,023 lin. ft. (Total length Section No. 3, 3,318 lin. ft.) 4. Laying reinforced-concrete overflow pipe from sewage tanks, 292 lin. ft. of 60-in. circular pipe, in lengths of about 24 ft. 5. Cast-iron penstocks for low level interceptor. Plans and specifications may be obtained on application.

VANCOUVER, B. C.—See item under Streets and Roads.

GARBAGE DISPOSAL.

BOSTON, MASS.—Bids will be received until Jan. 16 by Louis K. Rourke, Supt. of Streets, for removing ashes in the districts of Dorchester, South Dorchester, West Roxbury and Brighton.

NEW YORK, N. Y.—Bids will be received by William H. Edwards, Comr. St. Cleaning, until noon, Jan. 17, for furnishing all the labor and materials required for a contract pursuant to Section 54 of the Greater New York Charter for the final disposition of garbage in the Boroughs of Manhattan and the Bronx.

Bids will be received by William H. Edwards, Comr. St. Cleaning, until noon, Jan. 19, for the performance and completion of an abandoned contract for furnishing all the labor and materials required for the removal of snow and ice during the winter season of 1910-1911, Boro. The Bronx.

STREETS AND ROADS.

BOSTON, MASS.—Several minor street improvements and widenings in the heart of the city are planned, including the extension of Dix Pl., from Washington to Tremont St.; the widening of Pleasant St., the widening and extension of Avery St., the extension of Hamilton Pl. to Washington St., and also the construction of a new business street between and parallel to Washington and Tremont Sts. L. K. Rourke is Supt. of Sts.

A boulevard five miles long, running beside the old Colony roadbed, from Neponset to South Station, is planned.

BOSTON, MASS.—It is proposed to build a highway 100 ft. wide in West Roxbury, extending the present road north about one mile. This work will probably be done by the State Highway Commission. Harold Parker, Chn.

HARTFORD, CONN.—Plans have been received by James H. MacDonald, State Highway Comr., for proposed state road work, as follows: From A. S. Brainard, Div. Engr., 1,300 lin. ft. survey on the Hartford-Springfield Turnpike, town of South Windsor; from C. H. Nickerson, 23,650 lin. ft. survey on the River Road in the town of Sharon; from W. Le Roy Ulrich, 7,300 lin ft. survey on Olcott and West Center Sts., town of Manchester.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were received at the office of the State Highway Commissioner on Dec. 30, have been awarded as follows:

Town of Canton, 6,123 lin. ft. gravel-telford road, including one reinforced concrete culvert, 8-ft. span, to JOSEPH MASCETTI, Torrington, Conn., at $1.84 per lin. ft. for gravel, $2.34 per lin. ft. for telford, 60 cts. per lin. ft. for rubble drain, and 60 cts. per sq. yd. for cobble gutters.

Town of Preston, 7,825 lin. ft. graded-telford road, including one reinforced concrete culvert, 8-ft. span, to the ELDREDGE CONSTRUCTION CO., Mystic, Conn., at $13,728 for the entire grading, with $2.18 per lin. ft. extra for telford, 90 cts. per lin. ft. for rubble drain and $4 per cu. yd. for walling.

Town of Brooklyn, 5,050 lin. ft. macadam-telford road, to ROGER KENNEDY, Middletown, Conn., at $1.79 per lin. ft. for native stone, $2.48 for all trap rock, 60 cts. per lin. ft. for telford, $1 per lin. ft. for rubble drain, 65 cts. per sq. yd. for cobble gutters.

Towns of Litchfield and Harwinton, an aggregate of 3,832 lin. ft. to eliminate two grade crossings at East Litchfield, to STERNBERG & CADWELL, West Hartford, Conn., at $10,900 for the entire grading, 50 cts. per lin. ft. extra for telford, $1.25 per lin. ft. for rubble drain.

Town of New Fairfield, four sections graded-telford road, aggregating 4,160 lin. ft. to JOSEPH MASCETTI, Torrington, Conn., at $6,300 for the entire grading, 60 cts. per lin. ft. each for rubble drain and telford.

NEWBURGH, N. Y.—The City Council has extended to Feb. 7, the time for receiving bids for paving Grand St., between Broadway and Third St. D. J. Coutant is City Clk.

NEW YORK, N. Y.—Bids will be received by Cyrus C. Miller, Pres., Boro. The Bronx, until 11 a. m., Jan. 17, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches, and placing fences on various streets, Boro. The Bronx.

NEW YORK, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Jan 23, for repairing sheet-asphalt pavements in the Borough of Manhattan. The engineer's estimate of the amount of work to be done is 270,000 sq. yds. of asphalt pavement, including binder course; 500 cu. yds. of Portland cement concrete; 1,000 sq. yds. of old stone pavement, to relay.

NEWBURGH, N. Y.—The City Engineer has estimated the cost of paving Front St. with vitrified brick, from South St. to the Caldwell Lawn Mower Works, at $5,000.

PORTSMOUTH, VA.—The contract for the construction of a macadamized boulevard from the Cross Roads, in the Tanner's Creek magisterial district, to Ocean View, was awarded on Jan. 2 to E. PARKS LINDSAY, at $16,163. The other bidders were: E. J. McGuire, Norfolk, $16,270, and Dalby, Nottingham & Co., Norfolk, at $16,297.

HUNTINGTON, W. VA.—The City Commissioners will soon received bids for paving streets, which will include eight blocks on Eighth Ave., from Eighth to 16th Sts., Johnson's Lane, Second St., from Third to Fourth Aves., Fifth St., from Third to Sixth Aves., Seventh St., from Second to Seventh Aves., etc. The total cost will aggregate $170,000. John Coon is Comr. of Sts.

JACKSONVILLE, FLA.—The Duval County Commissioners have awarded the following contracts for road improvements: For grading, paving and curbing Panama Road with brick, to FRED OGRAM, at $8,943; for shell paving 64th St., to D. M. BAKER, at $6,062; for grading Lake Shore Boulevard, to J. COLLIER BROWN, at $2,370.

PALATKA, FLA.—Bids will be received by the City Council until 7:30 p. m., Feb. 7, for the construction of 16,500 sq. yds. of concrete sidewalks according to plans and specifications on file in the office of S. C. Stallings, City Engr. A. T. Triay is City Clk.

PENSACOLA, FLA.—The city has voted a bond issue of $150,000 for street paving. George Rommel, Jr., of Pensacola, has been commissioned to supervise the work.

JACKSONVILLE, FLA.—The contract for a shell pavement on 54th St. has been awarded to D. M. BAKER, at $5,319.

The contract for grading, paving and curbing Panama Road, from Phoenix Park to Whittaker Ave., has been awarded to FRED OGDEN, at $8,943.

GAINESVILLE, FLA.—Bids will soon be asked for paving with vitrified brick many of the principal streets of the city, including almost two miles on West Main St.

BROOKHAVEN, MISS.—The Commissioners of Lincoln County have voted a bond issue for constructing about 60 miles of gravel road in District No. 1. The amount is $150,000.

NASHVILLE, TENN.—The State Highway Commission is considering the construction of a state highway, using the route known as the old Price stage coach road, running from Nashville via Lebanon, Alexandria, Sparta, Smithville and Sligo, and crossing the Caney Fork River at the latter place. George W. Stainback is Supt. of Paving.

LOUISVILLE, KY.—Plans are being prepared by the City Engineer for improvements to various streets. Estimated cost, $175,000.

CIRCLEVILLE, OHIO.—We are officially advised that the contract for paving Court St., with brick, 41,883 sq. yds., has been awarded by John W. Lowe, Dir. of Pub. Service, to JAMES T. LYNCH, of Flint, Mich., at $73,052.

AKRON, OHIO.—It is reported that F. A. Seiberling has conferred with John T. Payne, City Engr., regarding the proposition to widen East Market St., from 60 to 70 ft. The property will cost the city $100,000 and the repaving will cost $125,000.

COLUMBUS, OHIO.—The city is planning to pave Summit St., from Eleventh Ave. to the Mock Road. Henry Maetzel is City Engr.

LINCOLN, OHIO.—Bids were received on Dec. 29 by the County Commissioners for grading North 14th St. The bids were as follows: E. E. Young, 24 cts. per yd.; John Lindoff, 30 cts.; Ed. Carr, 24 cts. The distance to be graded is about one mile.

CLEVELAND, OHIO.—The city will receive bids on Jan. 20 and 27 for paving approximately 40 streets. The work will be done this spring. Robert Hoffman is City Engr.

COLUMBUS, OHIO.—Bids will be received at the office of the Commissioners of Champaign County until noon, Jan. 14, for grading and macadamizing one mile of road in Goshen Township. Estimated cost, $7,984. James C. Wonders is State Highway Comr.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners, Fred Dreihs, Clk., until noon, Jan. 20, for improving Dayton pike, from Sharon to Butler County line, in Sycamore Township.

F. S. Shipley, City Engr., has reported the estimated cost of improving Ohio Ave. with wood block at $28,479, and the approximate estimate of paving with brick Beidare Ave., from Tower to Vine St., at $8,796.

CLEVELAND, OHIO.—The County Commissioners of Cuyahoga County have taken preliminary steps for the improvement of three roads at a total cost of $140,000: Fairmount Road, from East Boulevard to Coventry Road, at $45,000; Union Road, from the city limits to Kinsman Road, at $48,000; Gardner Road, from Dille Road to East Lake Road, at $47,000. Randolph Y. McCray is City Clk.

YOUNGSTOWN, OHIO.—Bids will be received by the Director of Public Service until noon, Jan. 20, for the following work: For paving Williamson Ave., between South and Franklin Aves.; South Ave., between Kyle St. and Marion Ave.; Logan Ave., between Broadway and the city limits; Millicent Ave., between Woodbine Ave. and Out Lot No. 249; Superior St., between Federal St. and Delaware Ave.; Hillman St., between Warren Ave. and Grace St.; Oak St., between Watt St. and Truesdale Ave., and Jefferson St., between Federal and Clyde Sts.; for grading Gladstone St., between Lincoln Park and the City Limits, and for extending and improving Hillsdale Ave., from Anderson Ferry eastwardly 370.5 ft. in Delhi Township. W. H. McMillin is Clk.

JEFFERSON, OHIO.—Bids on the North Ridge Road, Ashtabula County, were opened on Jan. 3, at the office of the County Commissioners, as follows: Oatley & Ensign, Cortland, Ohio, macadam, Bessemer stone, Tarvia X, limestone chips, $11,997; macadam, Bessemer stone, Tarvia V, silica gravel, $11,991. Thomas W. Nicholson, Cleveland, Ohio, macadam with tar or asphalt, $12,000. The Buckeye Engineering Co., Norwalk, Ohio, macadam, Wampum or Bessemer, No. 963 asphalt, limestone chips or silica gravel, $11,770; macadam, Wampum or Bessemer stone, Tarvia X, limestone chips or silica gravel, $11,720; same as above with standard Binder C, $11,570; macadam, Bellview stone, No. 963 asphalt, limestone chips or silica gravel, $11,500; above with Tarvia X, $11,450; above with Standard Binder C, $11,300. C. J. Chinnock, Warren, Ohio, Macadam, Tarvia X, Cambrian stone, limestone chips, $11,761; macadam, standard asphalt binder, Cambrian stone, limestone chips, $11,391; macadam, Tarvia X, Cambrian stone, silica gravel, $11,933; macadam, standard asphalt, Cambrian stone, silica gravel, $11,546. Callaghan & Parkinson, Bellview, Ohio, macadam, Standard asphalt binder, limestone chips, $11,389. R. P. Burnett, Cleveland, macadam, Bellview stone, Standard oil treatment, silica gravel, $12,412; macadam, Bellview stone, Standard oil treatment, limestone chips, $12,412. Walter F. Clifford, Ashtabula, Ohio, macadam, Tarvia X, limestone chips, Bessemer or Wampum stone, $12,298; macadam, Tarvia X, silica gravel, Bessemer or Wampum stone, $12,416. The contract was awarded to the BUCKEYE ENGINEERING CO., Norwalk, Ohio, for macadam with Wampum or Bessemer stone, Tarvia X, silica gravel, at $11,720.

MONTPELIER, OHIO.—The plans and specifications for paving Empire and Main Sts. have been completed and are on file at the office of the Village Clk. Estimated cost, $64,702.

URBANA, OHIO.—Bids will be received by the County Commissioners until Jan. 14, for grading and macadamizing a road one mile long in Goshen Township, Champaign County. Estimated cost, $7,984. J. C. Wonders is State Highway Comr.

FORT WAYNE, IND.—We are officially advised that bids will soon be asked for the construction of a macadamized road in Maumee Township. C. H. Brown is County Audr.

MARTINSVILLE, IND.—We are officially advised that no bids were received on Jan. 3 for highway improvements in Adams Township. New bids will be asked. J. S. Whitaker is County Audr.

WABASH, IND.—We are officially advised that the contracts for the construction of the M. Kilty Road in Chester Township, 2¼ miles in length, and the Sharp Road in Chester Township, three miles in length, have been awarded to GEORGE M. SEWELL, of Jamesville, at $9,200, and to WILLIAM REFFERT, Monroe, at $10,434, respectively.

MUNCIE, IND.—The contract for constructing a two-mile extension of the present brick road, making a total of four miles, has been awarded to WILLIAM BIRCH at $42,000.

VINCENNES, IND.—The contract for the construction of the J. W. Wilson Road has been awarded by the County Commissioners to WILLIAM BOBE, the only bidder, at $9,200.

HUNTINGTON, IND.—We are officially advised that no bids were received for the construction of the Wisner gravel road, bids for which were received on Jan. 3 by John W. Weaver is County Audr.

WASHINGTON, IND.—We are officially advised that the contract for constructing three miles of road in Daviess County has been awarded to M. H. WILSON, Montgomery, at $10,201. Bids were received on Jan. 3 by the County Commissioners.

CRAWFORDSVILLE, IND.—Bids are asked by the Commissioners of Montgomery County until 2 p. m., Feb. 7, for the construction of a gravel road, known as the L. T. Rush Road, in Union Township. Bennett B. Engle is County Audr.

HUNTINGTON, IND.—Bids will be received by John W. Weaver, County Audr., Huntington County, until 2 p. m., Feb. 6, for the construction of a gravel road, known as the P. W. Forest Road.

HUNTINGTON, IND.—We are officially advised that the contract for the construction of the Thomas or county line gravel road was awarded on Jan. 4 to HUTSELL & WOLFCALE, Markle, at $17,997.

LEBANON, IND.—Bids will be received by the City Council until 7:30 p. m., Jan. 23, for the construction of a gravel roadway, cement curbs, gutters and sewers in Baronne St. Edmund Connor is City Clk.

SOUTH BEND, IND.—Plans have been ordered and bids will soon be asked for draining and paving with asphalt the entire length of Michigan St. Estimated cost, about $250,000.

LAPORTE, IND.—We are officially advised that the contract for the construction of 14,932 ft. of macadamized road in Scipio Township was awarded on Jan. 5 to JACOB ACKERMAN, Laporte, at $21,350.

GRAND HAVEN, MICH.—We are officially advised that bids were received as follows on Jan. 3 for street paving at Grand Haven: W. W. Hatch & Son Co., 1905 Hammond Bldg., Detroit, Mich., for brick paving on 6-in. concrete foundation, $35,957; on 6-in. concrete, if contract is awarded before Jan. 15, $35,665; Westrumite, with brick between rails, $35,290. Marble Cement & Coal Co., Muskegon, Mich., for Tarvia X on 5-in. base course, and 2½-in. top, $24,064; Tarvia X on 6-in. base course, and 2½-in. top, $26,038; Tarvia X on 6-in. base course and 3-in. top, $29,988. C. H. Kanmeir, 919 Sixth St., Port Huron, Mich., for brick paving on 6-in. concrete foundation, $35,554. C. Marshman, 226 Sixth St., Grand Rapids, Mich., for brick paving on 6-in. concrete foundation, $32,247; treated macadam, $24,203; asphaltic concrete, $32,686. Farrell Bros., 701 Main St., W., Lansing, Mich., for brick paving on 6-in. concrete foundation, $34,738. Carpenter & Anderson, 310 Shepard Block, Grand Rapids, Mich., for brick paving on 6-in. concrete foundation, $31,050. C. E. Williams, 33 Paddock St., Grand Rapids, Mich., for brick paving on 6-in. concrete foundation, $31,828; asphalt macadam on 6-in. concrete foundation, $23,344; asphalt macadam on 6-in. stone foundation, $23,951; tar macadam on 6-in. concrete foundation, $22,895; tar macadam, on 6-in. stone foundation, $22,583. Anson Grune, 47 South Union St., Grand Rapids, for brick paving on 6-in. concrete foundation ($300 to be allowed for use of City Roller), $31,485; Tarvia on crushed stone and 4-in. top course, $22,161; Tarvia on concrete, and 4-in. top course, $28,012. John Vander-Wheele & Cornelius Vander-Wheele, 51 Baldwin St., Grand Rapids, for brick paving on 6-in. concrete foundation, $32,695. The Riggs & Sherman Co., Toledo, Ohio, is Engr.-in-Charge.

DETROIT, MICH.—On Jan. 4, the Common Council ordered the Department of Public Works, J. J. Haarer, Comr., to advertise for bids for paving the following streets: McDougal Ave., from Guoin to Jefferson Aves., with cedar blocks; estimated cost, $6,740; Third Ave., from Baltimore to North Boulevard, cedar blocks, $5,083; Third Ave., from Boulevard to Calvert Ave., cedar blocks, $54,630; Superior St., from Russell to McDongal Aves., $29,440; Colbourn Pl., from Cass Ave. to Fourth Ave., cedar blocks $9,396; Forsyth Ave., from Stanley to Dewey Aves., cedar blocks, $9,775; Stanley Ave., from Fourth to Greenwood Ave., cedar blocks, and Palmer Ave., from Third to Fourth Ave., sheet asphalt, $5,997. All on concrete foundations with Borea, Medina or other approved curbing.

EAST ST. LOUIS, ILL.—Official advices are to the effect that the contract for improving 40th St., from the northerly line of Waverly Ave. to the northerly line of Forest Boulevard, has been awarded to MEYER & THOMAS, at $20,956. Other bidders were: Myers Construction Co., $23,328; Gaynord & Sweeney, $22,424; Walter Coonan, $23,163.

ROCK ISLAND, ILL.—The city is receiving bids for paving 38th St., from the Seventh Ave. Boulevard to the city limits at 18th Ave. It will be 36 ft. wide. Estimated cost, $51,000. Wallace Freichler is City Engr.

CHICAGO, ILL.—Bids will be received until 11 a. m., Jan 14, by B. J. Mullaney Comr. of Pub. Wks., for furnishing and delivering at the various bridges and viaducts approximately 4,000 sq. yds. of sectional wood pavement.

WINNETKA, ILL.—We are officially advised that bids were received on Jan. 3 for paving North Ave. with brick, as follows: Indiana Paving Brick & Block Co., Indianapolis, Ind., $49,302; Western Improvement Co., Racine, Wis., $45,119; James Cape & Sons, Racine, $45,988. Windes & Marsh are Engrs.

ST. CLOUD, MINN.—See item under Bridges.

LINCOLN, NEB.—The County Surveyor has estimated the cost of macadamizing the West P St. road at about $8,402. Adna Dobson is City Engr.

DENISON, TEX.—The Southwestern Surety Insurance Co. has awarded the contract to ROBERTS & McSPADDEN, of Vinita, Okla., for the completion of a $250,000 road contract in Denison precinct. The original contractor abandoned the contract after about $10,000 worth of work had been completed.

HILLSBORO, TEX.—Bids will be received by Ed. Woodhall, Mayor, until 3 p. m., Jan. 24, for 31,500 sq. yds. of paving, 12,711 lin. ft. combination curb and gutter. Specifications cover brick, bitulithic and concrete pavements. Specifications are on file at the City Hall, Hillsboro, and with E. L. Dalton, Consult. Engr., Dallas.

BARTLESVILLE, OKLA.—The city has awarded a contract for paving East Third St., including curbing, guttering, grading and laying of sewers, to KRAULL & CO., at $2.38 per sq. yd.

DENVER, COLO.—It is reported that the Mayor and City Attorney are formulating plans for the construction of the Kessler Boulevard. The proposed boulevard is to be about 50 miles long and in order to complete it the widening of Steele St. will be necessary.

SPOKANE, WASH.—The only bid received by the Board of Public Works for the paving of Wall St. and others, was that submitted by the Spokane Asphalt & Macadam Co., at $69,156. It was rejected and new bids will be asked.

Plans and specifications for regrading, recurbing, residewalking and repaving of Front Ave., from Browne to Market Sts., and Division St., from Mail Ave. to Front Ave., were submitted to the City Council for approval, said regrading and repaving being in accordance with the franchise of the Chicago, Milwaukee & Puget Sound Ry. Co. The estimated cost is $58,500.

WENATCHEE, WASH.—Bids will be received by S. R. Sumner, City Clk., until 5 p. m., Jan. 25, for grading and surfacing with gravel and concrete the sidewalks of Okanogan Ave., between the southerly line of Orondo Ave. and the northerly line of Stevens St., a distance of about 4,400 ft.

PORTLAND, ORE.—The city is preparing to improve East Second St., between Hawthorne Ave. and East Oak St. by a fill. Estimated cost, $48,561.

HEMET, CAL.—Bids will be received until Jan. 25 by the Board of City Trustees, for grading and oiling Harvard St., together with the construction of cement curbs, gutters and concrete culverts thereon. C. G. Hamilton is City Clk.

LOS ANGELES, CAL.—Bids will soon be asked for the construction of about eleven miles of the valley road, extending from Lamanda Park to Whittier Road near Monticello. Homer Hamlin is City Engr.

LONG BEACH, CAL.—The Bd. of Trustees of Long Beach are asking for bids for grading, paving and curbing Third St., together with the construction of a 2-ft. vitrified brick gutter, two concrete and iron culverts and nine catchbasins and conduits. C. O. Boynton is City Clk.

LOS ANGELES, CAL.—Bids will be received by the Board of County Supervisors of Los Angeles County until Jan. 23 for the improvement of certain portions of Valley Road. C. G. Keyes is Clk.

LOS ANGELES, CAL.—The Board of Public Works has awarded contracts as follows: For improving Bonita Pl., to A. W. BEESEMEYER, at $2.21 per lin. ft. for grading and graveling complete; 38 cts. per lin. ft. for cement curb; 18 cts. per sq. ft. for cement gutter; 50 cts. per sq. ft. for vitrified block gutter. For improving Ave. 8, to PAUL H. EHLERS, at 20.7 cts. per lin. ft. for cement curb; 9.7 cts. per sq. ft. for sidewalk (cement).

ALHAMBRA, CAL.—The Board of Trustees has awarded the contract for improving Campbell Ave. to O. F. EASLEY. The prices were: 63 cts. per sq. ft. for grading, 22 cts. per lin. ft. for cement curb, 12 cts. per sq. ft. for concrete gutters, 45 cts. per sq. ft. for oiling. Noted on Dec. 15.

SAN BERNANDINO, CAL.—The contract for improving E St. has been awarded to ERNEST FRENZELL at $10,000. The item prices were: 9.6 cts. per sq. ft. for oil macadam; 2.5 cts. for oiled surfaces.

SAN DIEGO, CAL.—The City Council has authorized the grading, paving and curbing of Elm Ave.; grading of Hunter St.; paving and curbing of Eighth St., and the construction of granite block gutters thereon. J. T. Butler is City Clk.

Bids were received by the City Council for street improvements in San Diego, as follows: For improving J St.: Barber Asphalt Paving Co., 19 cts. per sq. ft. for paving; 35.9 cts. per sq. ft. for granite block gutters. Fairchild Gilmore Wilton Co., 18 cts., paving; 35 cts., gutters. For improving E St.: FAIRCHILD GILMORE WILTON CO., 18 cts. for paving; 35 cts. for gutters (awarded contract). Barber Asphalt Paving Co., 19 cts. for paving; 35.9 cts. for gutters. For improving F St.: Barber Asphalt Paving Co., $100 for storm drains, cement curb; 38.4 cts. for paving; 37.8 cts. for cent curb; 38.4 cts. for granite block gutters. Fairchild Gilmore Wilton Co., 19.8 cts. for paving; 37 cts. for granite block gutters; 35 cts. for cement curbs; $60 for cement pipe drain.

SAN FRANCISCO, CAL.—The Board of Public Works has awarded the contract for grading Beale St., between Folsom and Brynant Sts., and for constructing the steel bridge which is to carry the Harrison St. roadway over the cut to FOSTER & VOGT. Contract price of grading, $55,805; of bridge, $31,997.

LOS ANGELES, CAL.—The Occidental Land Co., Bixby & White, Engrs., Mason Bldg., has awarded the contract to W. R. ARNOLD, H. W. Hellman Bldg., for grading and oiling streets and constructing cement curbs and sidewalks in tract No. 1014, between Eagle Rock and Glendale. The item prices were as follows: 25 cts. per cu. yd. for dirt removed—provided it is not moved more than 200 ft.; for grading Occidental Drive, and Sycamore Drive, 30 cts. per cu. yd. for dirt moved, same proviso; for grading Sierra Vista Drive, 26 cts. per lin. ft., for 16 in. curb, 8 cts per sq. ft. for 3 in. sidewalk, 2 cts. per sq. ft. for oiling, using 2½ gallons to the square yard.

SAN FRANCISCO, CAL.—The Board of Public Works has awarded the contract to substitute asphalt for basalt blocks on O'Farrell St., between Powell and Jones Sts., to the CITY IMPROVEMENT CO., at $12,050.

VANCOUVER, B. C.—The City Council has voted the following amounts to be expended on public improvements during 1911: Pavements, $503,757; sewers, $475,694; concrete walks, $185,740, and general street improvements, $91,458. N. A. Clement is City Engr.

MANUFACTURING PLANTS.

LOWELL, MASS.—The Boston & Maine R. R. Co. plans to erect a car building and repair plant here. J. P. Snow is Ch. Engr.

FARMINGTON, CONN.—The New England Brick Co. has been organized, with a capital stock of $150,000. A tract of land, consisting of 150 acres, has been purchased near Farmington for a plant to be erected, which will have a capacity of 45,000 brick a day. The officers are: S. Macdonough Russell, of Middletown, Pres.; F. L. Sage, of Hartford, Secy.; Lewis A. Storrs, of Hartford, Treas. These officers and Joseph F. Carey, of Winsted, Frank W. Fuller, of Torrington, H. E. Putnam, of Hartford, and Oscar A. Newell, of Hartford, are Dirs.

NEW YORK, N. Y.—The contract for carpentry work on the 8-story candy factory being built at the southwest corner of Hudson and Morgan Sts. for the Trinity Church Corporation, 187 Fulton St., has been awarded to SLOANE & MOELLER, 316 East 65th St. A. L. GUIDONE & CO., 162 East 23d St., are the general contractors, and Charles C. Haight, 452 Fifth Ave., the Arch. The total cost will be $300,000.

We are officially advised that the contract for furnishing and installing laundry machinery and appliances required in the staff laundry, Metropolitan Hospital, Blackwell's Island, bids for which were received on Dec. 20 by the Department of Public Charities, was awarded to the AMERICAN LAUNDRY MACHINERY CO., 132 West 27th St., at $11,268, on Dec. 29.

SYRACUSE, N. Y.—Estimates will be received about Feb. 1 for the construction of a 3-story factory and power building, 100 × 250 ft., for the Marcellus & Otisco Lake Ry. Co. It will be of concrete construction. James D. Meehan, Hendrick Bldg., is the Arch., and John Stewart, Mrg. The estimated cost of the equipment is $10,000, and the building, $30,000.

SYRACUSE, N. Y.—Taber & Baxter, Archs. of this city, have plans in preparation for a factory building, 110 × 270 ft., brick, mill construction to be erected on Croton St., by Huebner Bros., Baker Ave.

NEWARK, N. J.—We are officially advised that the contract to erect a 5-story carriage factory at Central Ave. and Fourth St., for D. B. Dunham & Son, 84 Irving St., Rahway, has been awarded to HERMAN C. SCHNEIDER, 514 South 14th St., Newark, at $47,000. William E. Lehman, 738 Broad St., is the Arch.

NEWARK, N. J.—Gustavus Staehlin, Metropolitan Bldg., Newark, is preparing plans for erecting two additional stories to the 4-story brick brewery at Belmont Ave. and West Kinney St. for the Gottfried Krueger Brewing Co., 79 Belmont Ave, to cast about $35,000. E. N. Friedmann, 90 West St., New York, is the Engr.

PITTSBURG, PA.—The Pennsylvania Motor Car Co., organized recently with a capital stock of $500,000, will build its plant in the North Side. This company will manufacture a commercial motor car or truck of one-ton capacity. The output at first will be one truck a day, and will be increased to three trucks a day. The company will occupy its own building, which will be of brick and modern construction, covering about 20,000 sq. ft. The site will be large enough to allow for another building, 80 × 100 ft., when the necessity arises. Among those interested in the company are: S. A. Moore, Vice-Pres. of the First National Bank of Phillipi, W. Va.; L. M. Lucius, Treas. of the West Cleveland Banking Co., Cleveland; William T. Lyon, Pres. of the Guardian Trust Co., and Attorney Christopher Magee, Jr., Pittsburg. John T. Walsh, with offices in the Peopl's Bldg., is in charge of the distribution of the stock.

PHILADELPHIA, PA.—The contract for the proposed manufacturing building to be built on Main St., north of Levering, Manayunk, this city, for the Hercules Mills, Main and Levering Sts., has been awarded to the WILLIAM STEELE & SONS CO., 1600 Arch St., this city. The building will be fireproof of concrete and brick construction, one story high and 55 × 141 ft. It is to be started at once, and completed within three months.

BALTIMORE, MD.—The contract to erect a factory for the Maryland Bleach & Dye Works, at Hudson and Streeper Sts., has been awarded to R. B. MASON, Builders' Exchange Bldg. It will be three stories high, of brick and stone, with a concrete foundation, and the floors will be of concrete. All modern facilities and conveniences, including steam heat and electric lighting, will be installed. The old plant of the company was destroyed by fire last year.

CURTIS BAY (Baltimore post-office), MD.—Bids for the construction of the proposed $400,000 addition to the plant of the Davidson Chemical Works, at Curtis Bay, will soon be received. The improvements will consist of thre structures of steel and concrete. Each will be one story high, with reinforced concrete and slag roof. The framework will be of steel, covered with concrete, and they will conform in architecture to the present buildings.

WASHINGTON, D. C.—The Olive Products Co. plans to construct a fireproof factory, 27 × 11.7 ft., from plans prepared by Frank G. Pierson, Washington Loan & Trust Bldg. N. Musher, 702 Fifth St., N. W., is Mgr.

NORFOLK, VA.—The National Glass Co., Inc., with James S. Groves, Pres., Munsey Bldg., A. W. Conway, Secy., 1000 M. St., N. W., Washington, D. C., will build a glass factory and use sand from dunes at Cape Henry. The buildings are to be brick and fireproof construction. Estimated cost, $250,000.

ROANOKE, VA.—The contract to erect a factory, two stories high, 195 × 66 ft., for the Roanoke Overall Co., has been awarded to HERRINGDON & NORMOYLE, Terry Bldg. Cost, $10,774.

THOMASVILLE, N. C.—The plant of the Cramer Furniture Co., recently destroyed by fire will be built on a larger scale, it is stated. The project will involve an expenditure of approximately $125,000.

JONESVILLE, S. C.—A knitting mill is to be established here by M. R. Sams, of Union, who contemplates organizing a company with a capital stock of $50,000, for the purpose.

TAMPA, FLA.—Samuel Borchardt, Pres., of the Sisal Hemp & Development Co., recently organized and associates, are planning the erection of a hemp cultivation and cordage factory. The capital stock is $100,000.

CHATTANOOGA, TENN.—The contract to build an addition to the Davis Hosiery Mill has been awarded by Huntington & Sears, Archs., of Chattanooga, to CHAMBERS & SON, also of Chattanooga. It will be of brick construction and 40 × 65 ft.

MEMPHIS, TENN.—According to reports, W. L. Fay, of the Dixie Cooperage Co., will erect and equip a keg cooperage plant in South Memphis. A site has been secured and the plant will be equipped for a capacity of from 600 to 800 packages per day.

TOLEDO, OHIO.—Houghton Elevator & Machine Co., has purchased 50 ft. of property on Erie St. The company already owns 30 ft. The 80 ft. will be improved immediately with a 12-story brick factory building. Cost, $25,000. H. B. Houghton, is Mgr.

SPRINGFIELD, OHIO.—Plans have been ordered by the Springfield Pure Milk Co., for its proposed plant on North Fountain Ave.

BRAZIL, IND.—The American Sewer Pipe Works Co., announce that they will construct a factory on a site adjoining the old plant, work to begin in the Spring. The estimated cost of the proposed plant will be $100,000.

BATTLE CREEK, MICH.—Robert E. Seyforth, Arch., 206 LaSalle St., Chicago, and Wescott and Ronneberg, Consult. Engrs., 188 Madison St., Chicago, are preparing plans for a 3-story and basement printing plant, 60 × 130 ft., for the Battle Creek Enquirier, Battle Creek. The plant is to cost $100,000.

DETROIT, MICH.—L. Lawson Miller, Goebel Bldg., is receiving estimates on a creamery and cold storage plant for the Artic Ice Cream Co., Sixth and Bagg Sts., Detroit. The plant will be three stories high, 70 × 100 ft. M. E. Ryan & Sons, 105 Alfred St., Detroit, are excavating for same. Cost, $25,000.

Benjamin Douglas, Ford Bldg., Detroit, desires estimates on a gravel plant to be located near Detroit. It is to have a capacity of about 600 yds. per 10-hour day. Estimates on either a steam or electrical power plant for the operation of same are also wanted.

Louis Lehle, 109 Randolph St., Chicago, Ill., Spier, Rohus & Gehrke, Chamber of Commerce Bldg., Detroit, Superv. Archs., are preparing plans for a new boiler house, 48 × 80 ft., 60 ft. high, for the Stroh Brewing Co., of Detroit. Bids will soon be asked.

Baxter & O'Dell have awarded the following contracts for the proposed plumbing shop, three stories high, 20 × 171 ft., for Robert Dawson. Masonry to STOKES & WHITTINGHAM, 78 Linden Ave.; carpentry to WILLIAM F. BUSSE, 471 Helen Ave. Ernest Bros., 414 Woodward Ave., are the lessees.

DETROIT, MICH.—Arthur Colton, Pres. of the Colton Co., 184 Brush St., contemplates building a factory to manufacture special machinery.

The E. M. F. Automobile Co., Clark St., Detroit, has awarded the general contract for the factory addition to its plant, to H. ROY HABERKORN, Ford Bldg., Detroit, who will soon take estimates on materials.

CHICAGO, ILL.—The Zeno Mfg. Co. and the William Wrigley, Jr., & Co., have consolidated and will be known as the William Wrigley, Jr., Co. A chewing gum factory will be established here. The officers are: William Wrigley, Jr., Pres.; A. G. Cox, Vice-Pres. and Treas., and Joseph H. Patrick, Secy. The capital is $9,000,000.

CUDAHY, WIS.—The Power & Mining Machinery Co., has perfected plans for erecting several additions to its plant, which will double its capacity. The buildings will be of reinforced concrete and brick. A tract of land consisting of 40 acres has been purchased for this purpose.

KAUKAUNA, WIS.—The Thilmany Pulp & Paper Co., has purchased a site of 43 acres of land and will erect a pulp mill, to cost $250,000.

MILWAUKEE, WIS.—The Albert Trostel & Son Co., tanners has taken out a permit for the erection of a 6-story building to replace the one recently destroyed by fire. Cost, $12,000.

RACINE, WIS.—Ellis M. Hughes is at the head of a movement to organize a foundry company, which will erect and equip a foundry plant in the city. Options have already been secured on several suitable sites for the different buildings.

SIOUX CITY, IOWA.—Bids will be received about Feb. 15, for the construction of a factory and warehouse for the Johnson Biscuit Co. Wilfred W. Beach is the Arch. Estimated cost, $80,000.

DULUTH, MINN.—The Engineering Board of the United States Steel Co., has approved, it is said, the locality prepared plans and specifications for the plant of the Minnesota Steel Co., which is to be constructed in Duluth. These plans were prepared under the direction of George L. Reis, Vice-Pres. and Gen. Mgr. The plans call for the expenditure of more than $10,000,000 to carry out the original project, and for a great deal more in future years. The approval of the plans is an assurance that there will be no delay.

ST. LOUIS, MO.—The Lowell Bleachery, of Lowell, Mass., plans to erect a branch plant in St. Louis. The capital stock is $200,000.

ST. LOUIS, MO.—The general contract to erect a 2-story factory, 80 × 122 ft., for the Loughmon Cabinet Works, 17 South Seventh St., has been awarded to JOHN GREWE, 2606 Hebert St. Cost, $20,000.

FORT SMITH, ARK.—Paul Williams, of Paris, Tex., plans to establish a peanut factory here.

The Arkansas Refining Co., incorporated with a capital stock of $100,000, contemplates erecting an oil refinery. The officers are: Charles T. Madison, of Muskogee, Okla., Pres.; D. J. Young, Vice-Pres. and R. R. Cravens, Secy.-Treas., both of Fort Smith.

OSCEOLA, ARK.—A company is being organized here by R. C. Rose, I. Miller, L. A. Morris, E. E. Driver and E. W. Williams, of Cincinnati, Ohio, for the purpose of erecting a mattress factory.

CUERO, TEX.—The Cuero Cotton Factory will expend $50,000 for improvements, to include additional buildings, install 2,000 spindles, with accompanying picking, carding and weaving machinery, overhaul present equipment and install humidifiers and steam-heating plant. John Hill, of Atlanta, Ga., will be the Engr. in charge and J. C. Saunders of the Bonham Cotton Mills, Bonham, Tex., the Mgr.

TULSA, OKLA.—Charles Page, A. F. Ault and H. R. Ritchie are promoting the construction of a cement plant, four miles west of Tulsa. The capital stock will be $250,000.

LOS ANGELES, CAL.—A. F. Rosenheim, Arch., H. W. Hellman Bldg., has prepared plans and submitted same to Widemann & Walsh, of St. Louis, Archs., for the Anheuser-Busch Brewing Co., for a 1-story addition to the cold storage plant, of the company in Los Angeles.

REDONDO, CAL.—The Standard Oil Co., of California has decided to duplicate its $3,000,000 Point Richmond refinery on a site in Redondo, according to reports.

CLAREMONT, CAL.—The contract to erect a steam laundry and to increase the present power plant at the Pomona College, has been awarded to the RICHARDS-NEUSTADT CONSTRUCTION CO., Stimson Bldg., Los Angeles.

SAN PEDRO, CAL.—The Outer Harbor Canning Co., has been organized by J. A. Anderson, for the purpose of erecting a fish canning plant. D. A. Parker and U. C. Reed, of Los Angeles, are interested. Capital stock, $50,000.

LONDON, ONT.—An automobile factory to manufacture the "K-R-I-T" runabout, has decided to locate in London, and work will be commenced shortly. Hugh Kennedy, of Galt, is interested in the enterprise, together with Capt. W. J. Reid and Col. Frank Reid of this city.

NIAGARA FALLS, ONT.—The Waters Garment Co., will establish a factory here, employing 75 hands.

ST. CATHARINES, ONT.—The Steel & Radiation Co., Ltd., will erect a plant here, employing 100 people, on the new Welland Canal.

PORTAGE LA PRAIRIE, MAN.—The International Harvester Co. plans to make this city its headquarters for distribution throughout western Canada. The necessary buildings will be erected in the spring.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

OIL TANKS.—Portsmouth, N. H.—Bids will be received until 11 a. m., Feb. 11, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for six oil tanks with pumps, meters, gages, piping, etc. Specifications are on file at the office of Engineering News, New York.

TUNNEL.—Boston, Mass.—The construction of a second tunnel to East Boston, for the use of teams and pedestrians only, is being agitated. Louis K. Rourke is Comr. of Streets.

STEEL VAULTS.—Boston, Mass.—It is proposed to construct a large steel vault under ground in the City Hall yard. Estimated cost, $18,000. Manus J. Fish is Supt. Pub. Bldgs.

SUBWAY.—Boston, Mass.—A joint board consisting of the Transit and the Railroad Commissions has reported favorably upon the construction of a subway from the present terminus of the nearly finished Cambridge Subway at Park St. to the South Station; thence by tunnel under Fort Point Channel and Subway, to Andrew Square, South Boston. The estimated cost, includ-

ing three intermediate stations, is $3,500,000, exclusive of land damages. Edmund S. Davis is Acting Chief Engr., Transit Comn.

DAM.—Three Rivers, Mass.—The County Commissioners have approved the plans of the Otis Co. for the construction of a dam across the Chicopee River, near its mill at Three Rivers.

ELEVATORS.—New York, N. Y.—Bids were received as follows on Jan. 5, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing elevators in the New York Assay office: Otis Elevator Co., 17 Battery Pl., New York, $14,762; Llewellyn Iron Works, Los Angeles, Cal., $15,462.

*DREDGING AND ROCK REMOVAL.—New York, N. Y.—Bids will be received until noon, Feb. 14, by Col. W. M. Black, Corps Engrs., U. S. A., for dredging and rock removal in the Hudson River.

*HARBOR LINES.—New York, N. Y.—There will be a public hearing by the New York Harbor Line Board, at 10.30 a. m., Feb. 1, in Room 800, 39 Whitehall St., New York, on U. S. harbor lines for Bronx River from its mouth to a dam south of East 177th St. Interested parties are invited to attend. Col. William T. Rossell, Corps Engrs., U. S. A., is Senior Member of Bd.

JUNCTION BOXES.—Fort Totten, N. Y.—Bids will be received until 10 a. m., Jan. 16, by the Commanding Officer, Torpedo Depot, Fort Totten, for delivering f. o. b. point of manufacture 450 large c.-i. junction boxes.

COAL POCKET.—Philadelphia, Pa.—Bids are asked until noon, Jan. 17 on Track Elevation Contract No. 54, by the Philadelphia & Reading Ry. Co. The contract will consist of the construction of a large coal pocket at the plant of the Powers-Weightman-Rosengarten Co. W. Hunter is Ch. Engr.

PIERS.—Baltimore, Md.—Two piers will be built, it is reported, at Curtis Bay, to cost about $100,000, one for the Atlantic Fertilizer Co. and the other for the U. S. Fertilizer Co. The piers will be of steel, concrete and stone. B. T. Fendall is City Engr.

REFRIGERATING MACHINERY.—Washington, D. C.—The Paymaster General, Navy Dept., Washington, will receive bids until Jan. 17 for furnishing two sets of carbonic anhydride refrigerating machinery, with coolers, piping, and all accessories for a complete installation for magazine cooling. The equipment is required for the U. S. S. Ohio and is to be delivered at the Navy Yard, Brooklyn.

ROOF AND CRANE RUNWAY.—Norfolk, Va.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Feb. 4, for a new roof and crane runway for building No. 23, Navy Yard, Norfolk. Specifications are on file at the office of Engineering News, New York.

COAL AND ASH-HANDLING APPARATUS.—Norfolk, Va.—The contract for installing a coal and ash handling plant at the Navy Yard, Norfolk, bids for which were opened on Dec. 3, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., has been awarded to the GUARANTEE CONSTRUCTION CO., 140 Cedar St., New York, at $31,200. List of bidders noted on Dec. 15.

SEAWALL.—Portsmouth, Va.—ALSOP & PIERCE, Portsmouth, have been awarded the contract to build a seawall in front of government property in this city, 60 ft. long, with a uniform width of 40 ft. and sufficiently deep to permit of 35 ft. of water along side. Estimated cost, about $15,000.

TRAVELING CRANE.—Norfolk, Va.—Bids will be received until 11 a. m., Feb. 4, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a 60-ton electric traveling crane in Building No. 23 at the Navy Yard, Norfolk. Specifications are on file at the office of Engineering News, New York.

DREDGING.—Savannah, Ga.—P. Sanford Ross, Inc., Jersey City, N. J., awarded contract by the U. S. Government for dredging 1,617,000 cu. yds. in Savannah River, has sublet the contract to the ATLANTIC, GULF & PACIFIC CO., 13 Park Row, New York. Estimated cost, $167,000.

SEA WALL.—St. Petersburg, Fla.—The Bayboro Investment Co. has awarded the contract to H. A. FARMER, St. Petersburg, for constructing a sea wall, 200 ft. long, 3 ft. thick at bottom and 6 ft. high, 1 ft. thick at top. The wall will be reinforced by piling and by five strands of barbed wire, part of wall to be in the water.

PIPE.—Jacksonville, Fla.—The Board of City Bond Trustees has awarded the contract for 1,100 ft. of 15-in. and 200 ft. of 12-in. reinforced concrete pipe to the REINFORCED CONCRETE CULVERT PIPE CO., Jacksonville, Fla.

ELEVATORS.—Cincinnati, Ohio.—Bids will be received until Jan. 24 by the Board of Hospital Commissioners, Cincinnati, E. L. Kennedy, Clk., for the completion of the partially erected elevators at the contagious group of the new general hospital.

*FLATBOATS, BARGES.—Cincinnati, Ohio.—Bids were received on Jan. 4, as follows by Maj. John C. Oakes, Corps Engrs., U. S. A., Cincinnati, for the construction of three steel flatboats and three steel barges: (a) three steel flatboats and three steel barges; (b) three steel flatboats only; (c) three steel barges only: Milwaukee Bridge Co., Milwaukee, Wis., (a) $39,798; Howard Ship Yards Co., Jeffersonville, Ind., (a) $47,100. American Bridge Co., 38 Church St., New York, and Union Trust Bldg., Cincinnati, Ohio, (a) $34,500; (b) $19,350; (c) $16,050. Des Moines Bridge & Iron Works, Pittsburg, Pa., (a) $39,489; (b) $21,372; (c) $18,117.

DRAINAGE CANAL.—Scottsburg, Ind.—The DANIELS-LYST CO., Anderson, Ind., has been awarded the contract for a 7-mile drainage canal in Scott County, at $7,950.

DITCH.—Huntington, Ind.—The Commissioners of Huntington County, will ask for bids for the construction of the Hahn ditch in Polk Township.

DRIVING PILES, ETC.—Chicago, Ill.—Bids will be received until Jan. 14 by B. J. Mullaney, Comr. Pub. Wks., for removing all caps, wales and planking wherever necessary from the old pile protections, removing old chain from pile clumps, pulling old piles, and for furnishing, delivering and driving new piles of the lengths required at the various bridges in the city, also for furnishing, delivering and putting in place all chain and spikes necessary on the work.

ENGINE AND HOSE WAGON.—Moline, Ill.—Bids will be received by the Fire and Water Committee of the City Council until noon, Jan. 15, for furnishing a combination automobile pumping engine and hose wagon and an automobile straight hose wagon. V. E. Brown is Chn.

DRAINAGE DITCH.—Marinette, Wis.—The contract has been awarded to CAPT. JAMES LARSON to finish the work on the Peshtigo Drainage ditch. Work on this project was started some time ago, but later abandoned. The new contract amounts to about $11,000.

DITCHES.—Marshall, Minn.—Bids were received on Dec. 24 by Ernest R. Shepard, County Audr., for constructing ditches. Contracts have been awarded as follows: To F. DESMOREAUX & CO., Cottonwood, for Nos. 7 and 8, approximate 62,930 ft. of 5 to 22-in. tile, and 32,600 ft. of 4 to 20-in. tile, to MARSHALL TILE & SIDEWALK CO., Marshall, for No. 9, 27,068 ft. of 5 to 14-in. tile.

CEMENT.—Fort Leavenworth, Kan.—All bids opened on Dec. 20 by the Construction Quartermaster, U. S. A., Military Prison, Fort Leavenworth, for furnishing 10,000 bbls. of Portland cement have been rejected. New bids will be asked.

EXCAVATION.—Falls City, Neb. — The Drainage Board of District No. 1 has awarded the contract for 600,000 cu. yds. of excavation for the new river channels between Falls City and Paulo, to CALLAHAN BROS., MUNN & RIESE, at 8.45 cts. per cu. yd., or about $52,800.

BATH HOUSE.—Hot Springs, Ark.—Bids will be received by the Rammelsberg Bath House Co., G. E. Hogaboom, Mgr., until Mar. 1 for the construction of a bath house, three stories. Estimated cost, $100,000.

CANAL, ETC.—Jonesboro, Ark.—The contract will be awarded by J. H. Burke, Engr. Drainage District No. 6, Craighead County, Jonesboro, on Jan. 16, for the construction of a canal and improvements in the drainage district. The canal will be 35,900 ft. long, 18 ft. wide at bottom and 24 ft. wide at top and have an average depth of 7 ft. It is estimated that 183,000 cu. yds. of earth and other substances will be removed. R. L. Collins is Clk.

*DREDGING.—Galveston, Tex.—Bids will be received until Feb. 11 by Maj. G. P. Howell, Corps Engrs., U. S. A., for dredging the channel between the Brazos River and Matagorda Bay, Texas.

WAGON SHED.—Fort Crockett (Galveston post-office), TEX.—Bids will be received by Capt. P. Whitnorth, Q. M., U. S. A., Fort Crockett, until 2 p. m., Jan. 20, for the construction of a reinforced concrete wagon shed at Fort Crockett.

DAM AND LEVEE.—Yuma, Ariz.—Arrangements between the State Department, Washington, D. C., and the Mexican Embassy have been concluded for the construction of a dam and levee on the lower Colorado River in Imperial Valley. Congress at the last session appropriated $1,000,000 for the work. Under the arrangements the construction will be carried out by the Colorado River Land Co.

STEEL PLATES.—Bremerton, Wash.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until Jan. 24, for 412,600 lbs. of medium steel plates required at the Navy Yard, Puget Sound.

CAISSON. — Bremerton, Wash.—The contract for the construction of caisson work in connection with the dry dock at the naval station, Pudget Sound, has been awarded to the MORAN CO., Seattle, Wash., at $125,000.

DREDGING, ETC.—Seattle, Wash.—Bids for dredging and excavating in Lake Washington Canal right-of-way will be received by Maj. C. W. Kutz, Corps Engrs., U. S. A., Seattle, until noon, Jan. 19.

FERRYBOAT LANDINGS.—Los Angeles, Cal.—The Board of Public Works will receive bids until 11 a. m., Jan. 16, for ferryboat landings. Horace B. Ferris is Secy. Bd.

VAULTS.—Los Angeles, Cal.—The City Council has authorized the City Clerk to advertise for bids for fire and burglar proof vaults for the city treasury.

BULKHEAD.—Longbeach, Cal.—The city is considering the construction of a bulkhead at West Beach. Estimated cost, $108,000.

SWITCHING ENGINE. — San Francisco, Cal.—The Harbor Commissioners have directed the Secretary to advertise for bids for a 6-wheeled switching engine.

DREDGING.—Vallejo, Cal.—In order to open the Pinole Shoals in San Pablo Bay, which obstruct the entrance to the Mare Island Navy Yard, Congress will be asked by the War Department to appropriate $510,000.

SUBWAY.—Edmonton, Alta.—See item under Bridges.

DRY DOCK.—Prince Rupert, B. C.—Ottawa, Ont.—The Chief Engineer of the Pub. Works Dept., Ottawa, Ont., has reported favorably upon the application of the Grand Trunk Pacific R. R. Co., C. C. Van Arsdale, Div. Engr., Prince Rupert, for the statutory subsidy for a dry dock at Prince Rupert. Estimated cost, not less than $2,000,000.

CONDUIT WORK.—Winnipeg, Man.—The City Council has voted $55,000 for conduit work this year. H. N. Ruttan is City Engr.

WHARVES AND DOCKS.—Vancouver, B. C.—The Grand Trunk Pacific Ry. Co. has purchased water frontage here on which to erect wharves and docks. Bids will be asked soon. Guy C. Dunn is Div. Engr., Winnipeg.

RAILWAY CARS.—Regina, Sask.—The City Council has ordered four double truck and two single truck cars from the OTTAWA CAR CO., Ottawa, Ont., for the municipal street railway system now under construction and which will be in operation by July next.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 24.

CONCRETE BRIDGES.

OFFICE OF BOARD OF PUBLIC WORKS.

Kansas City, Mo.

Sealed proposals will be received at this office until Monday, January 30th, 1911, for the construction of two concrete bridges, as follows:

A reinforced concrete arch bridge over the Blue River at Fifteenth Street, in which there will be approximately 3,600 cubic yards of concrete, 300,000 pounds of steel and 1,260 square yards of creosoted block pavement.

Second. A reinforced concrete arch bridge over Brush Creek at Cleveland Avenue, containing 900 cubic yards of concrete, 80,000 pounds of metal and 360 square yards of creosoted block pavement.

Tenders may be made upon each bridge separately or they may both be included in one tender. Plans and specifications are on file in the office of the Board of Public Works, or bidders may obtain copies by application to Waddell & Harrington, Leslie-Orear Building, this city, upon the payment of $25.00, the same to be refunded if the papers are returned to the engineers.

The city reserves the right to reject any or all proposals.

STREET PAVING.

Dallas, Texas.

Sealed bids will be received at the office of the undersigned until 3 o'clock P. M., January 24th, 1911, for 31,500 square yards of paving, 12,711 lineal feet combination curb and gutter. Specifications cover Brick, Bitulithic, and concrete pavements. The city reserves the right to reject any or all bids or parts of bids. Specifications on file at City Hall, Hillsboro, Texas, or E. L. Dalton, Consulting Engineer, Dallas, Texas. Bidders wanting specifications sent out of city for personal use will be charged the actual cost.

A certified check for $1,000 made payable to the Mayor of Hillsboro must accompany each bid.

Envelopes must be addressed to Mayor Ed. Woodall, Hillsboro, Texas, and marked "Bids on Street Paving."

CONSTRUCTION WORK TO BE DONE BY THE OMER IRRIGATION DISTRICT.

Fowler, Colorado, Dec. 28, 1910.

Notice is hereby given that sealed proposals will be received at the office of the Board of Directors of The Omer Irrigation District, Fowler, Otero Co., Colorado, until 10 o'clock A. M., on January 26th, 1911, for the construction of a dam for Omer Reservoir No. 1, a diversion dam, headworks and sluice gates for the Omer Canal, and for the removal of about 100,000 cubic yards of earth work in the Extension and enlargement of said Canal, and for the furnishing of cement, valves, steel and other material necessary for the construction of said works.

Plans, specifications and other particulars may be obtained at the office of the District at Fowler, Colorado, or at the office of The Field, Fellows & Hinderlider Engineering Company, 435 Century Building, Denver, Colorado.

The Board of Directors reserves the right to reject any or all bids.

By order of the Board of Directors of
THE OMER IRRIGATION DISTRICT,
E. H. HALL, Secretary.

U. S. ENGINEER OFFICE, Savannah, Ga., December 27, 1910.—Sealed proposals for bank protection of Savannah River at Augusta, Ga., will be received at this office until 12 noon (Eastern Standard Time), January 26, 1911, and then publicly opened. Information upon application. DAN C. KINGMAN, Colonel, Engineers.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 28, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 8th day of February, 1911, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States Post Office at Milledgeville, Ga., in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Milledgeville, Ga., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

SEALED PROPOSALS for dredging and rock removal in Harlem River, N. Y., will be received at this office until 12 M., February 14, 1911, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

PUMPING MACHINERY.

Winnipeg, Man.

Sealed tenders addressed to the Chairman, Board of Control, Winnipeg, Canada, will be received at the office of the undersigned up to 11 a. m. on Monday, February 6th, 1911, for the manufacture, delivery and erection complete of two pumping plants each of a capacity of one million imperial gallons per 24 hours. Specifications and forms of tender, together with conditions governing tenders as prescribed by By-law, may be obtained at the office of the City Engineer, 223 James Avenue, Winnipeg. The City reserves the right to reject any or all tenders, or to accept any bid which appears advantageous to the City's interest.

M. PETERSON,
Secretary.

Board of Control Office.
Winnipeg, Jan. 6th, 1911.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 6, 1911.—Sealed proposals will be received in this office until 3 o'clock P. M., on the 17th day of February, 1911, and then opened, for the construction, complete, (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Waxahachie, Texas, in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Waxahachie, Tex., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

U. S. ENGINEER OFFICE, Galveston, Texas, January 11, 1911.—Sealed proposals for dredging channel between Brazos River and Matagorda Bay, Texas, will be received at this office until February 11, 1911, and then publicly opened. Information on application. G. P. HOWELL, Major, Engrs.

THERE WILL BE PUBLIC HEARING by N. Y. Harbor Line Board, 10.30 a. m., Feb. 1, 1911, in Room 800, 39 Whitehall St., N. Y., on U. S. harbor lines for Bronx River from its mouth to a dam south of East 177th St. Interested parties are invited to attend. WM. T. ROSSELL, Col. Engrs., Senior Member of Board.

Situations Wanted

DESIGNING-CONSTRUCTING Engineer on dredging plant and appliances; twelve years' experience; first-class references. Address "O. B. 2," Engineering News, New York. 2-5t

CIVIL AND STRUCTURAL Engineer, college man (30); eight years' general experience, including blast furnaces, rolling mills, fabricating steel shops, bridges, tall buildings, towers and coal-handling machinery, etc., desires permanent position, with chance of advancement; $150 per month. Address "E. B. 2," Engineering News, New York. 2-1t

ENGINEER, with 7 years' experience on railroad, government and private work, desires position; at present employed; references furnished. Address "H. B. 2," Engineering News, New York. 2-5t

INSTRUMENTMAN (26), experienced at railroad, mining, drainage, levee, structural, water-works, sewerage, etc.; construction and surveys, inspect or superintend construction; draftsman; excellent references; go anywhere. Address "P. B. 2," Engineering News, New York. 2-2t

ENGINEER and Asst. Supt., experienced in railroad tunnel construction, bridges, railroad surveys and estimating. Address "M. B. 2," Engineering News, New York. 2-2t

Situations Open

WANTED—Engineering Draughtsman, with extensive experience on first class ornamental cast and wrought iron work, elevator enclosures, etc. Give age, salary expected and full details of experience. Address "L. B. 2," Engineering News, New York. 2-2t

Miscellaneous Wants

PATENTS

for mines, smelters, iron works, engines, railroad material, tools and implements to be sold on favorable terms. Patents are placed and sold without advance. Wanted—first-class agencies and directory of industry, trade and commerce.

CHR. LEHMANN,
Patents Broker,
No. 2507 W, c'o D. Frenz,
Wiesbaden, Germany. 2-1t

FOR SALE

WANTED

to buy or rent one second-hand

Locomotive

15 to 20 tons, 36" gauge. LOCK BOX 208, Lockport, N. Y. 2-1t

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